Wireless USB Adapter

User's Manual

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Welcome

Thank you for purchasing the IEEE 802.11n Wireless USB Adapter. Wireless USB Adapter has an extra foundation which is designed to make Wireless USB Adapter get better signal when it is plugging into the foundation and can be easily move around. In addition, Wireless USB Adapter is backward compatible with 802.11b/g. When Wireless USB Adapter is connecting to the standard 802.11b, 802.11g or 802.11n APs or routers, it can perform much better than other standard stations.
Wireless USB Adapter supports higher data throughput than the IEEE802.11n standard (up to 150Mbps).
For the security of WLAN, Wireless USB Adapter supports 64/128-bit WEP data encryption which protects your wireless network from eavesdropping.
It also supports WPA/WPA2 which combines IEEE802.1x and TKIP technologies. Client users are required to authorize before accessing to APs or routers, and the data transmitted on the network is encrypted and decrypted by a dynamically changed secret key. Wireless USB Adapter supports WPA2 function which provides a stronger encryption through AES which is the most advanced WLAN solution for IEEE802.11i. Besides, Wireless USB Adapter supports WPS function which provides a stronger encryption and easier configuration through WPA2 which is the most advanced WLAN solution for IEEE802.11i.

Package Contents

The Wireless USB Adapter package includes the following.

1. Wireless USB Adapter
2. ANETENNA
3. Quick Installation Guide
4. AUTORUN CD

Wireless USB Adapter Overview

Wireless USB Adapter has the USB interface, LED and WPS button below.

Interface

USB Interface: Connect the USB Interface to a USB port on your computer.

LED Description

LED: The LED stays lighted to indicate WLAN link established and active.

WPS Button

WPS Button: Press this button to do WPS with AP.

Wireless USB Adapter Installation

The following instructions will guide you to through the process of installing the Wireless USB Adapter.

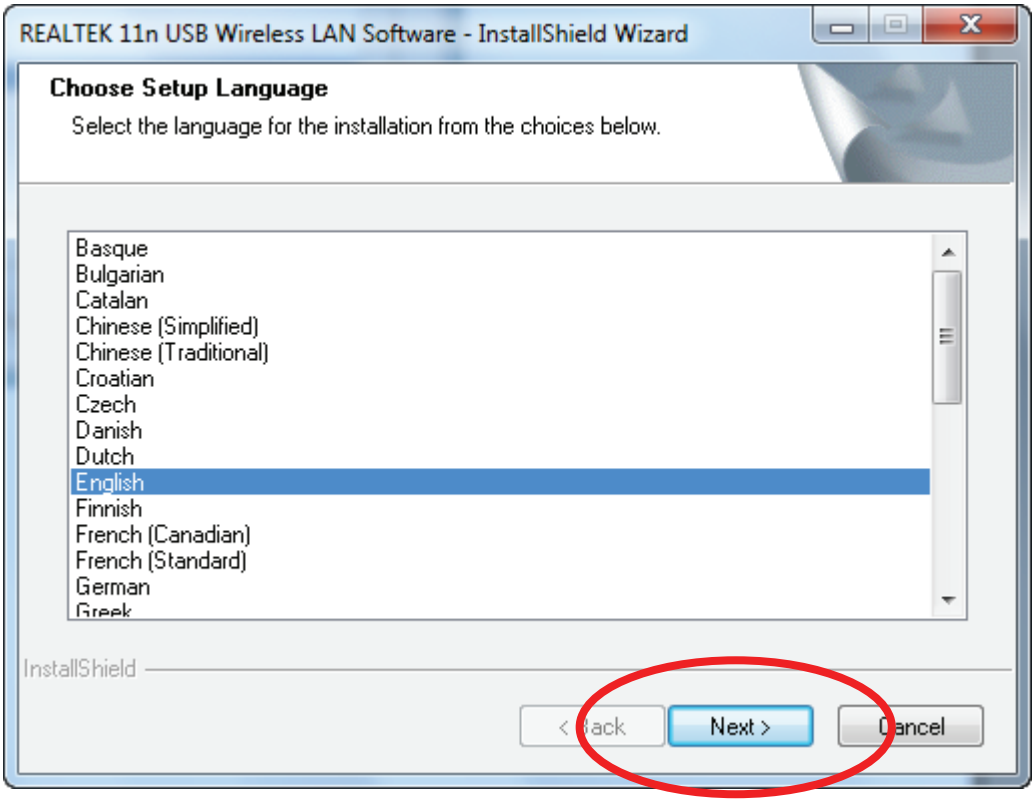
Windows 7

Step 1:
Once USB dongle connected to computer and the following will appear on screen.

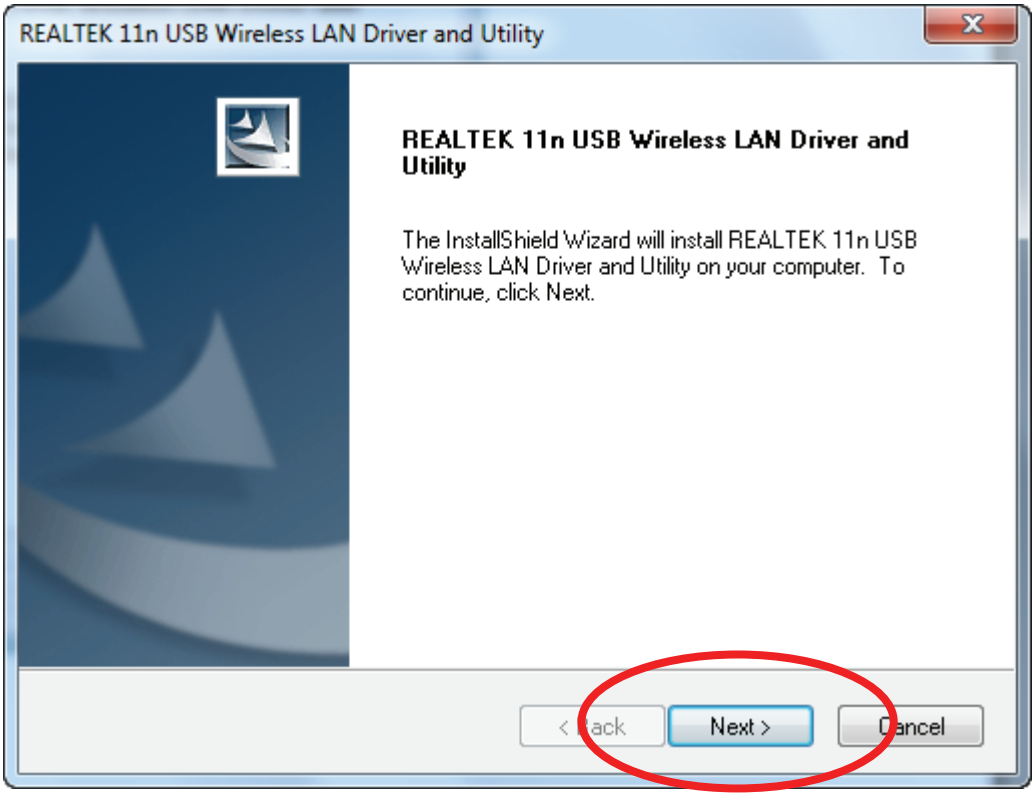
Step 2:
Please insert the AUTORUN CD into your CD-ROM drive.
The CD should auto-start, displaying the following window. If it does not start, click on **Start – Run** and type in **CD: \autorun.exe** (where CD is the drive letter of your CD-ROM drive.) Click **" Driver Installation "**.

Step 3:
For Security reasons Windows 7 requires the installer program to have administrator privileges so the new policy called **" User Account Control "** has been introduced in Windows 7. If UAC is enabled Windows pops up a window **" User Account Control "** Windows need your permission to continue. User needs to Click **" Yes "** to proceed with the installation.

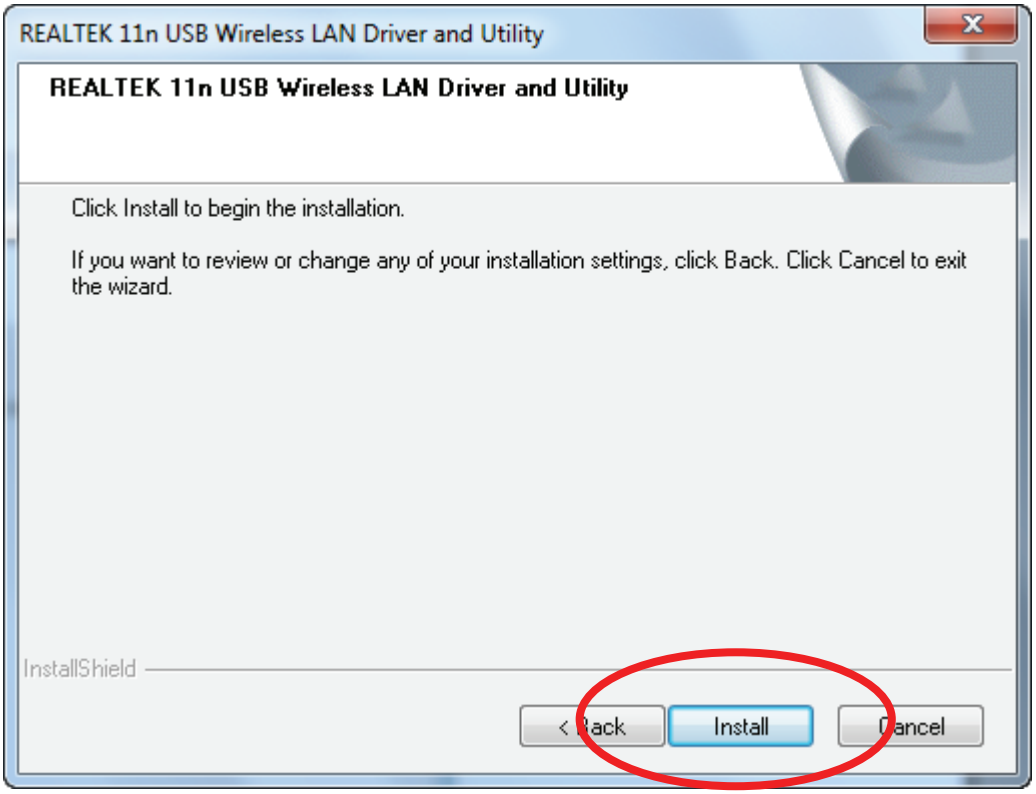
Step 4:
Click **" Next "**.



Step 5:
Click **" Next "**.


REALTEK 11n USB Wireless LAN Driver and Utility
REALTEK 11n USB Wireless LAN Driver and Utility
The InstallShield Wizard will install REALTEK 11n USB Wireless LAN Driver and Utility on your computer. To continue, click Next.
< Back
Next >
Cancel

Step 6:
Click **" Install "**.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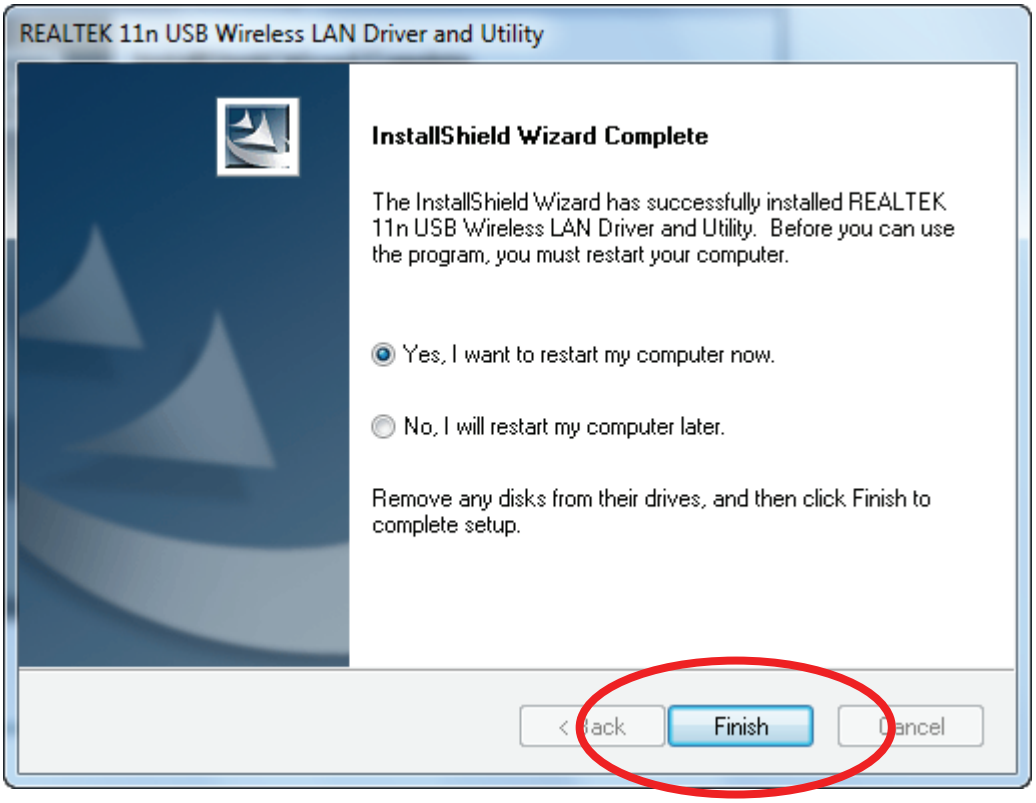
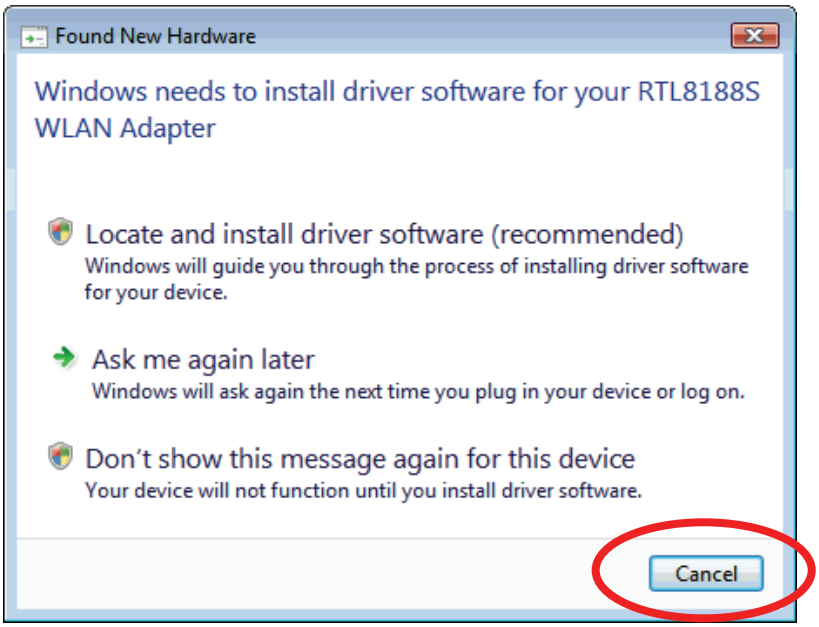
REALTEK 11n USB Wireless LAN Driver and Utility
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Step 7:
Click **" Finish "**.


REALTEK 11n USB Wireless LAN Driver and Utility
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed REALTEK 11n USB Wireless LAN Driver and Utility. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Windows Vista

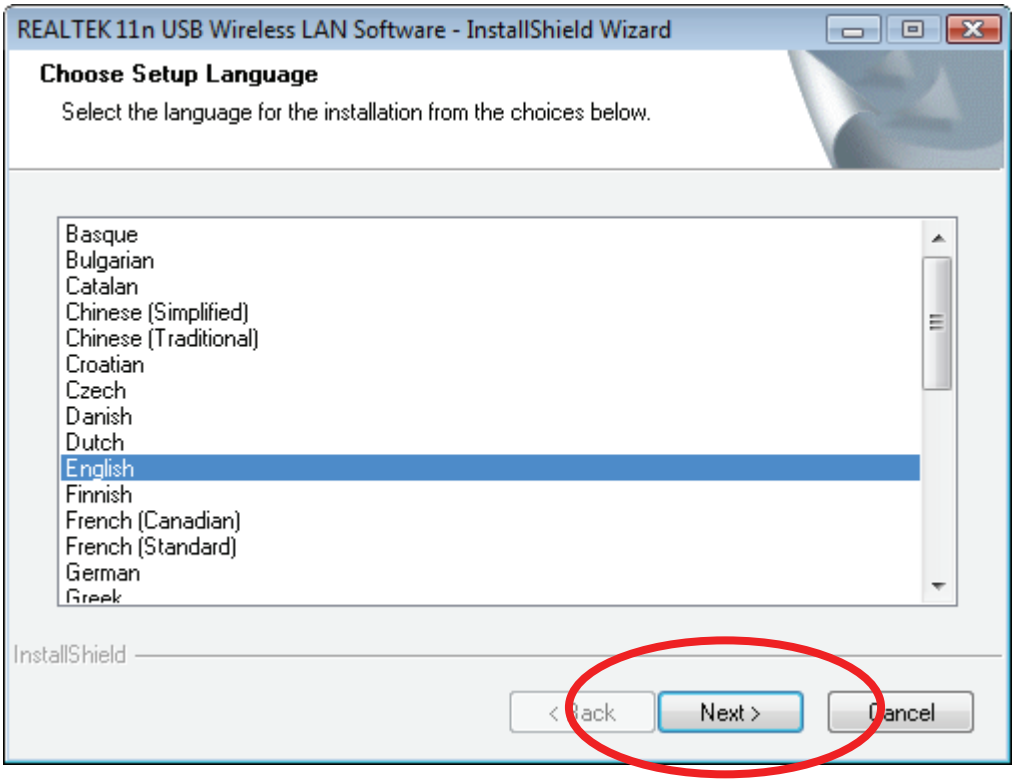
Step 1:
As Windows starts it will detect that new hardware has been added, and start the **" Found New Hardware Wizard "**. Click on **" Cancel "**.


Found New Hardware
Windows needs to install driver software for your RTL8188S WLAN Adapter
Locate and install driver software (recommended)
Windows will guide you through the process of installing driver software for your device.
Ask me again later
Windows will ask again the next time you plug in your device or log on.
Don't show this message again for this device
Your device will not function until you install driver software.
Cancel

Step 2:
Please insert the AUTORUN CD into your CD-ROM drive.
The CD should auto-start, displaying the following window. If it does not start, click on **Start – Run** and type in **CD: \autorun.exe** (where CD is the drive letter of your CD-ROM drive.) Click **" Driver Installation "**.

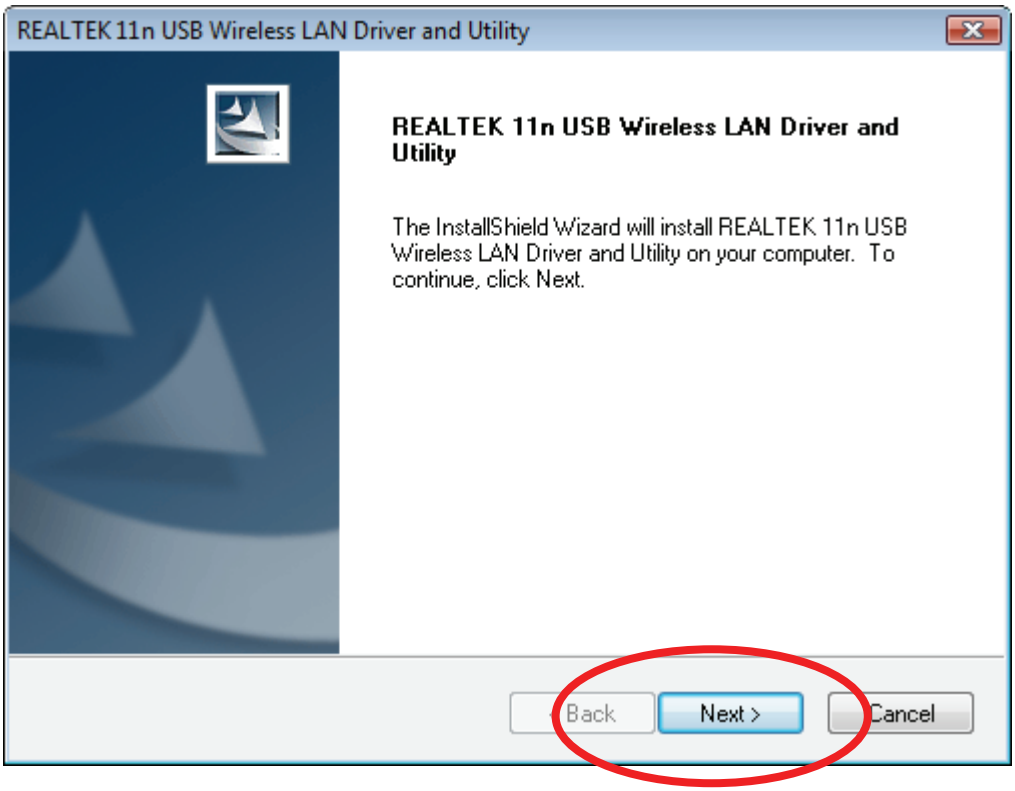
Step 3:
For Security reasons VISTA requires the installer program to have administrator privileges so the new policy called **" User Account Control "** has been introduced in Windows VISTA. If UAC is enabled Windows pops up a window **" User Account Control "** Windows need your permission to continue. User needs to Click **" Allow "** to proceed with the installation.

Step 4:
Click **" Next "**.



Step 5:

Click **" Next "**.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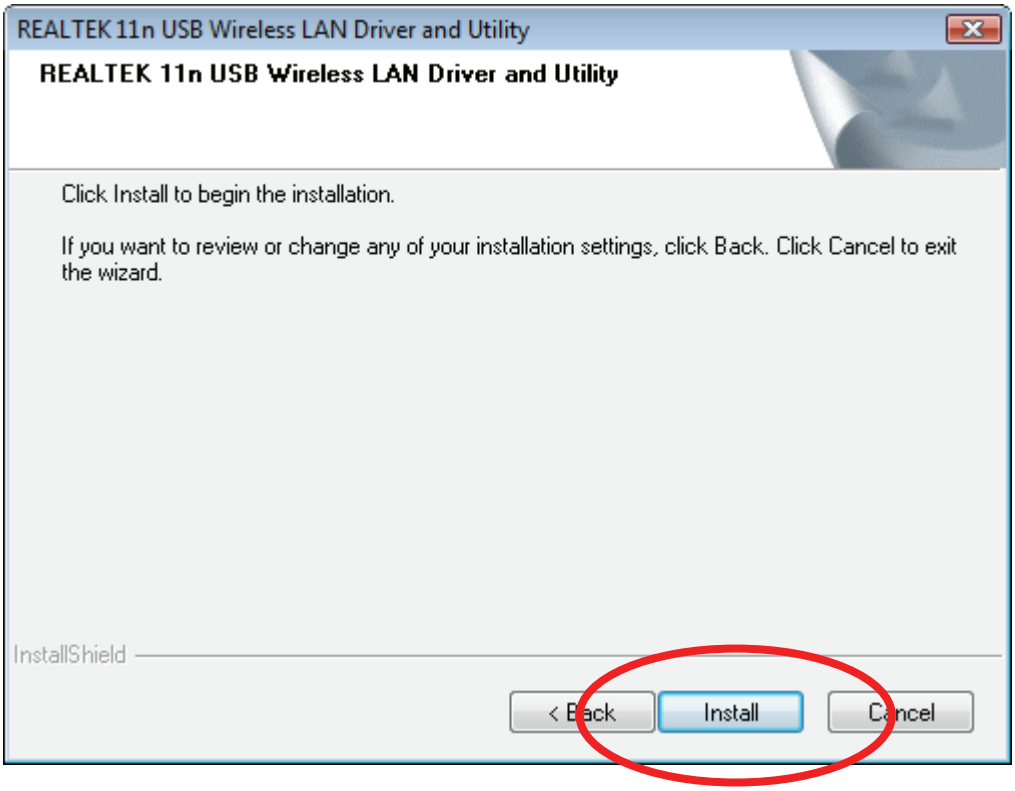
The InstallShield Wizard will install REALTEK 11n USB Wireless LAN Driver and Utility on your computer. To continue, click Next.
Back
Next >
Cancel

Step 6:

Click **" Install "**.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Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
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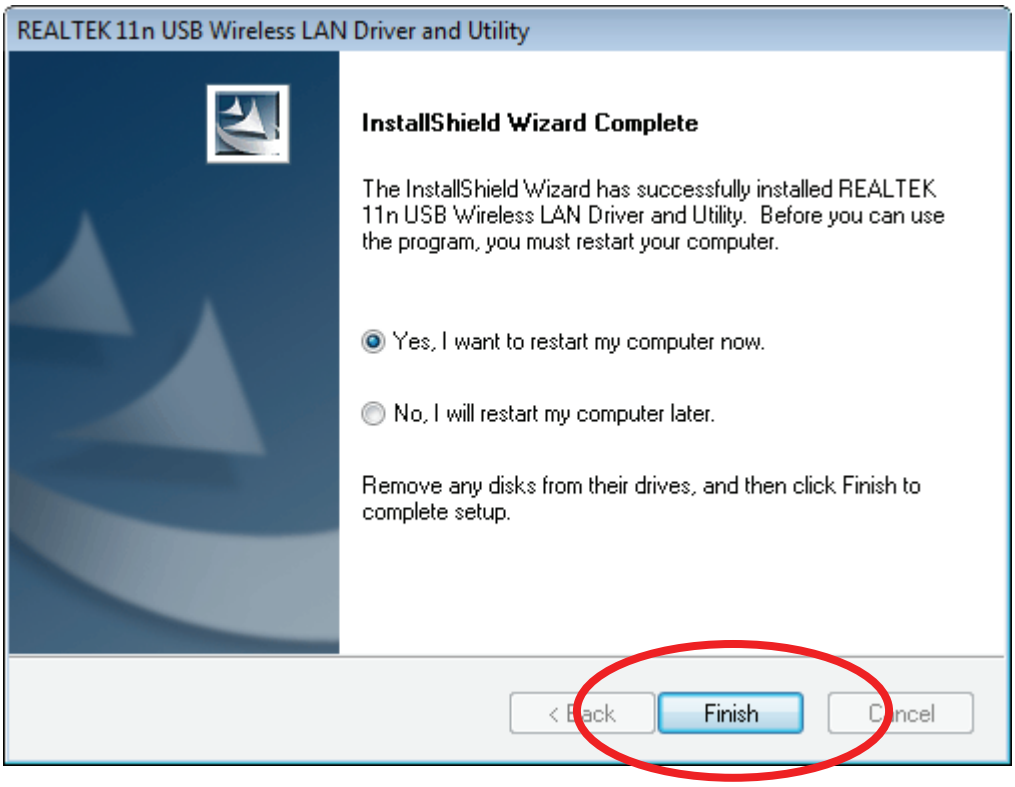
Install
Cancel

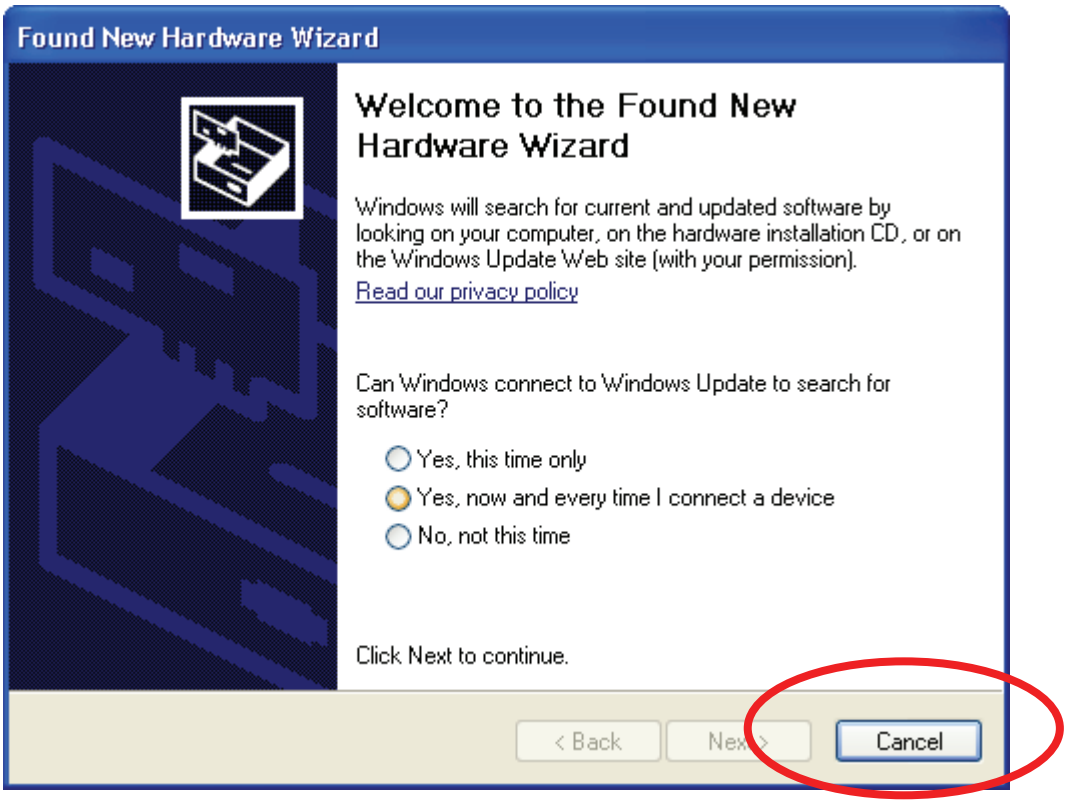
Step 7:

Click **" Finish "**.


REALTEK 11n USB Wireless LAN Driver and Utility
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed REALTEK 11n USB Wireless LAN Driver and Utility. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Windows XP

Step 1:
As Windows starts it will detect that new hardware has been added, and start the **" Found New Hardware Wizard "**. Click on **" Cancel "**.

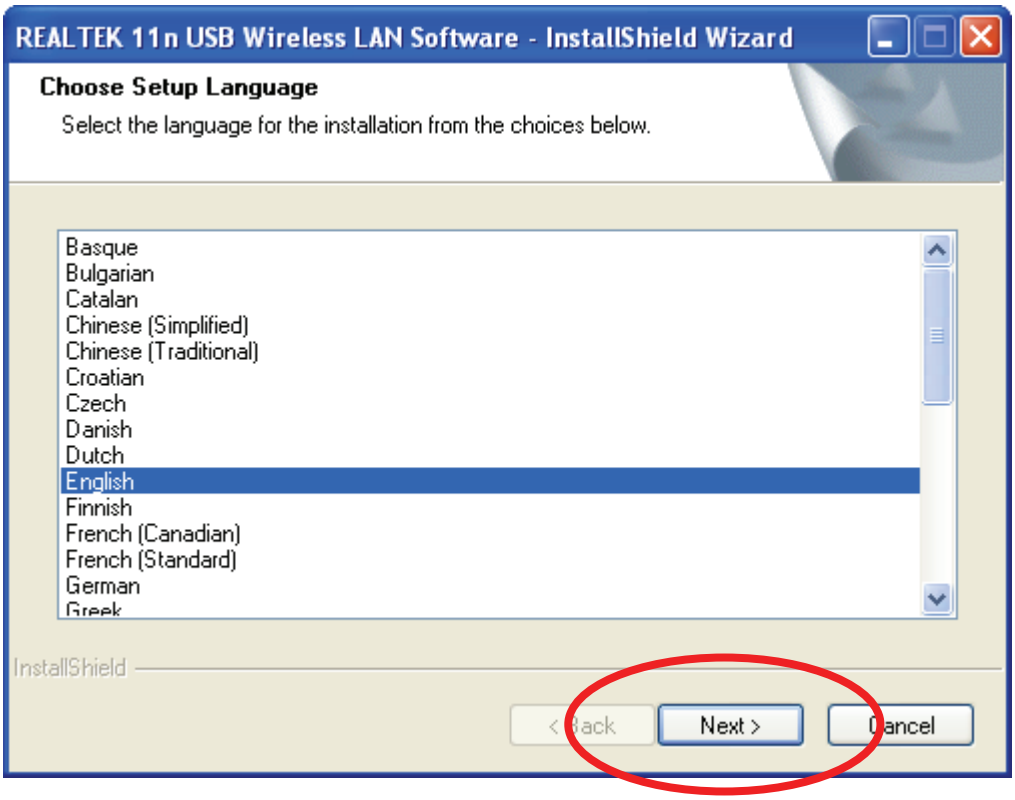

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

Step 2:

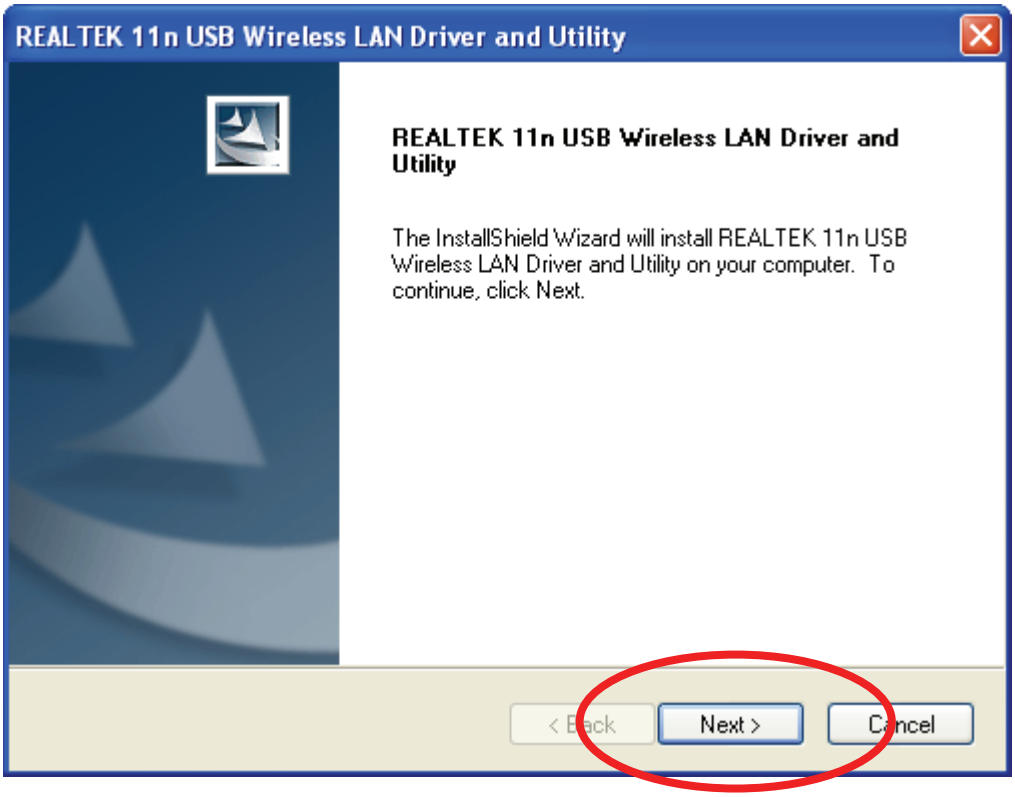
Please insert the AUTORUN CD into your CD-ROM drive.

The CD should auto-start, displaying the following window. If it does not start, click on **Start – Run** and type in **CD: \autorun.exe** (where CD is the drive letter of your CD-ROM drive.) Click **" Driver Installation "**.

Step 3:
Click **" Next "**.



Step 4:
Click **" Next "**.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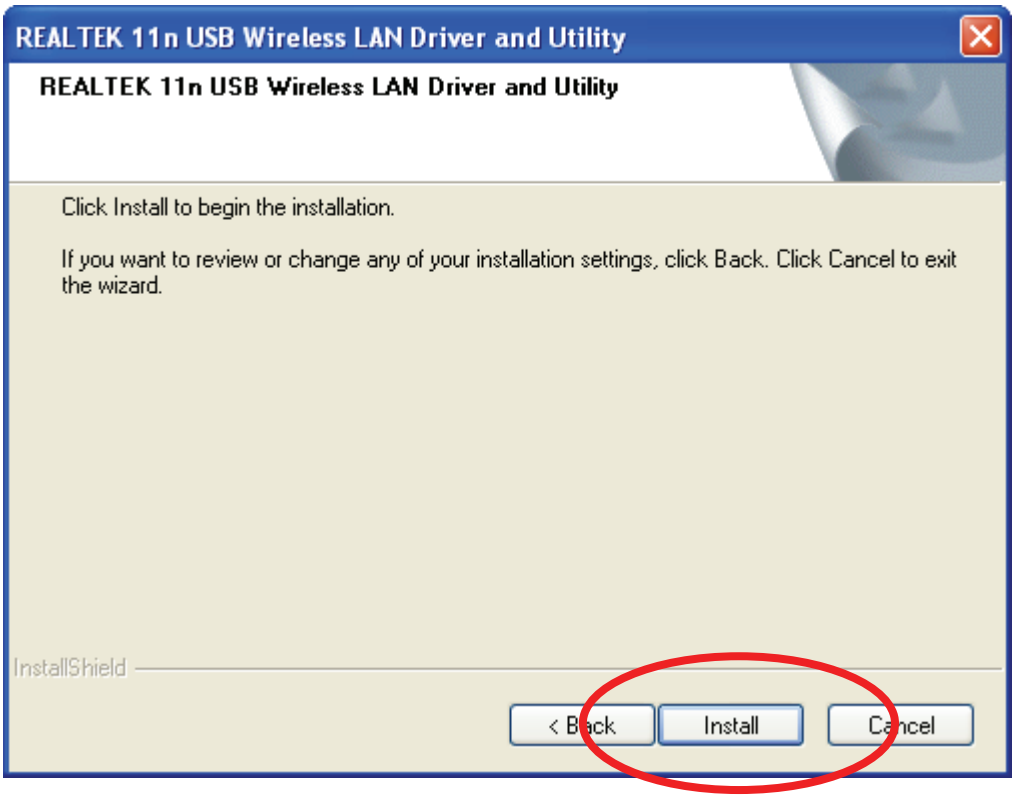
Cancel

Step 5:
Click **" Install "**.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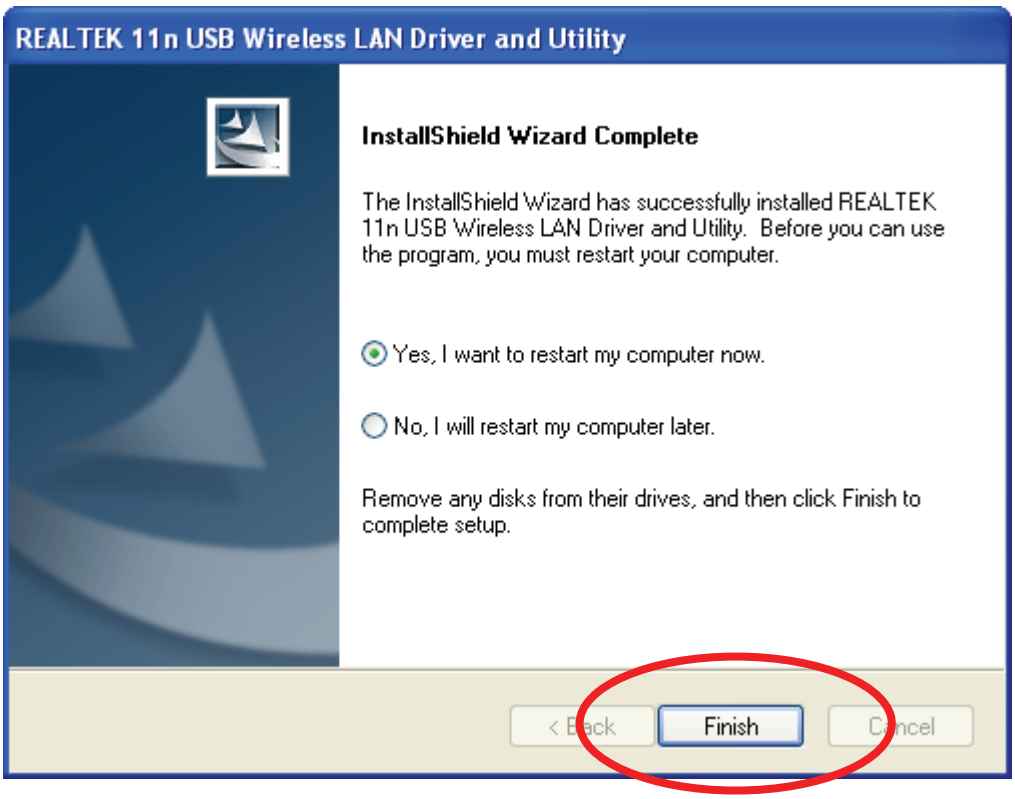
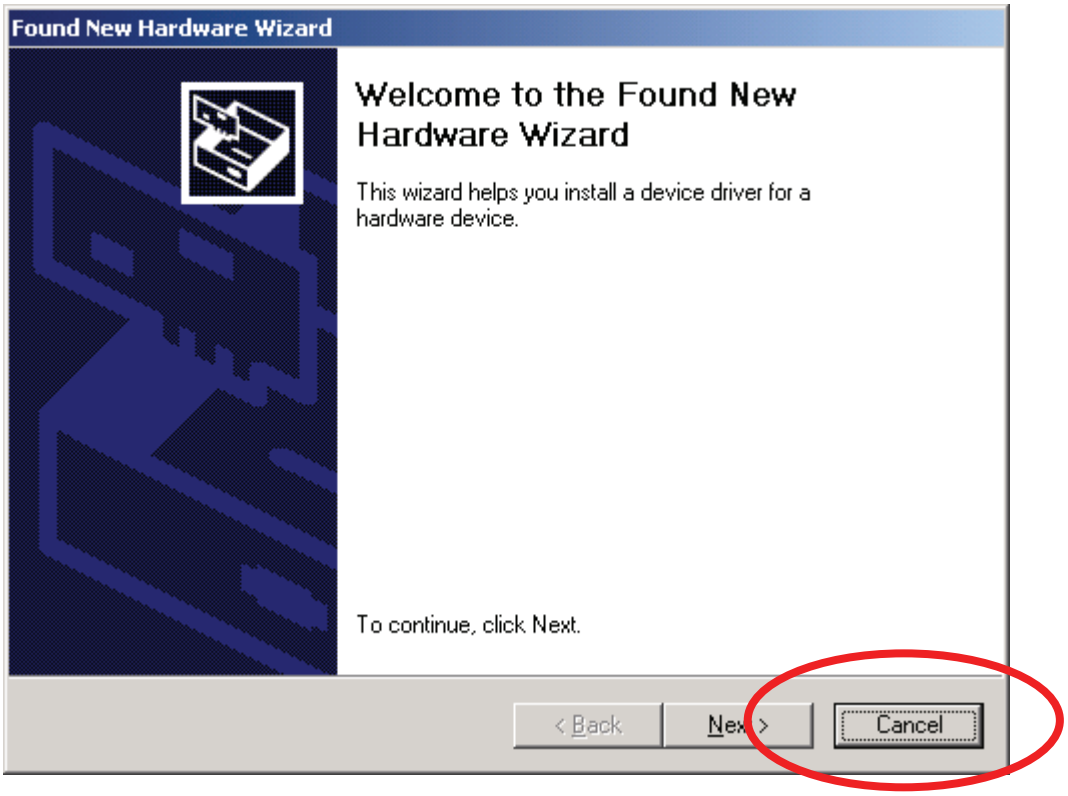
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
InstallShield
< Back
Install
Cancel

Step 6:
Click **" Finish "**.


REALTEK 11n USB Wireless LAN Driver and Utility
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed REALTEK 11n USB Wireless LAN Driver and Utility. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Windows 2000

Step 1:
As Windows starts it will detect that new hardware has been added, and start the **" Found New Hardware Wizard "**. Click on **" Cancel "**.


Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install a device driver for a hardware device.
To continue, click Next.
< Back
Next >
Cancel

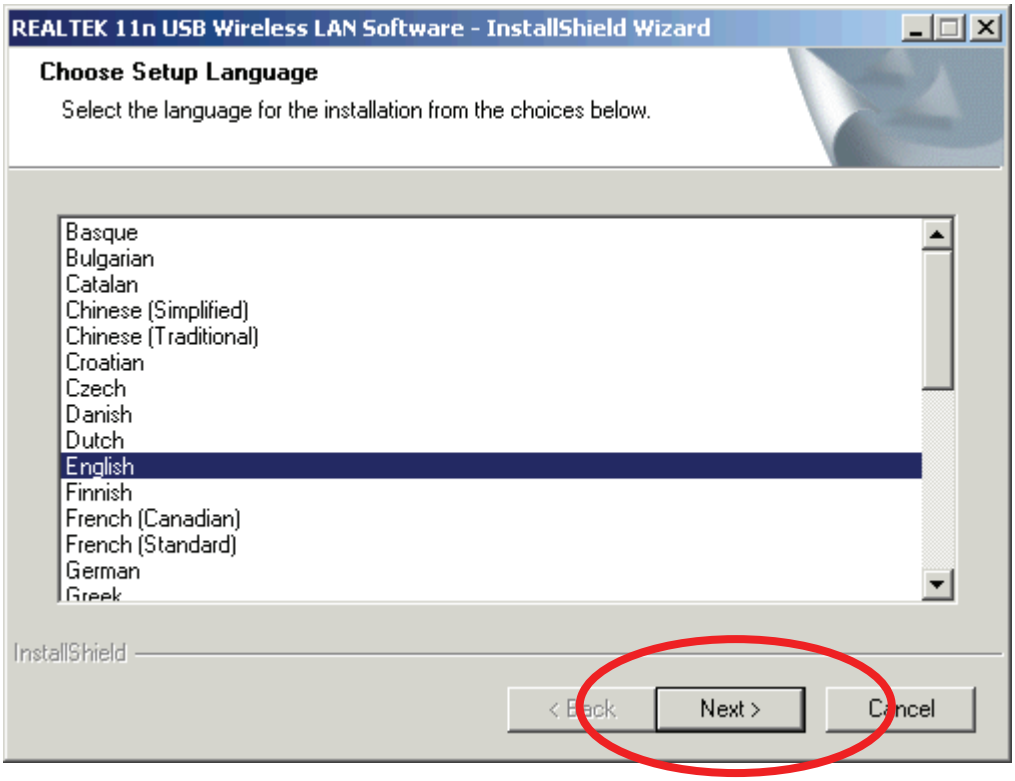
Step 2:

Please insert the AUTORUN CD into your CD-ROM drive.

The CD should auto-start, displaying the following window. If it does not start, click on **Start – Run** and type in **CD: \autorun.exe** (where CD is the drive letter of your CD-ROM drive.) Click **" Driver Installation "**.

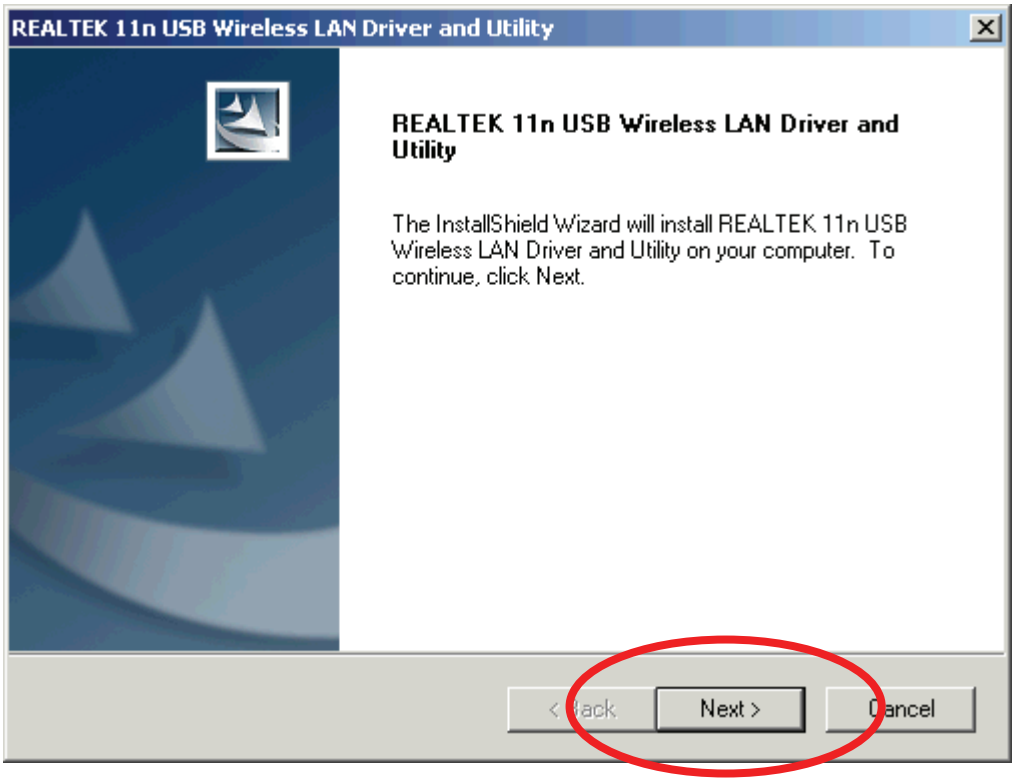
Step 3:

Click **" Next "**.



Step 4:

Click **" Next "**.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REALTEK 11n USB Wireless LAN Driver and Utility
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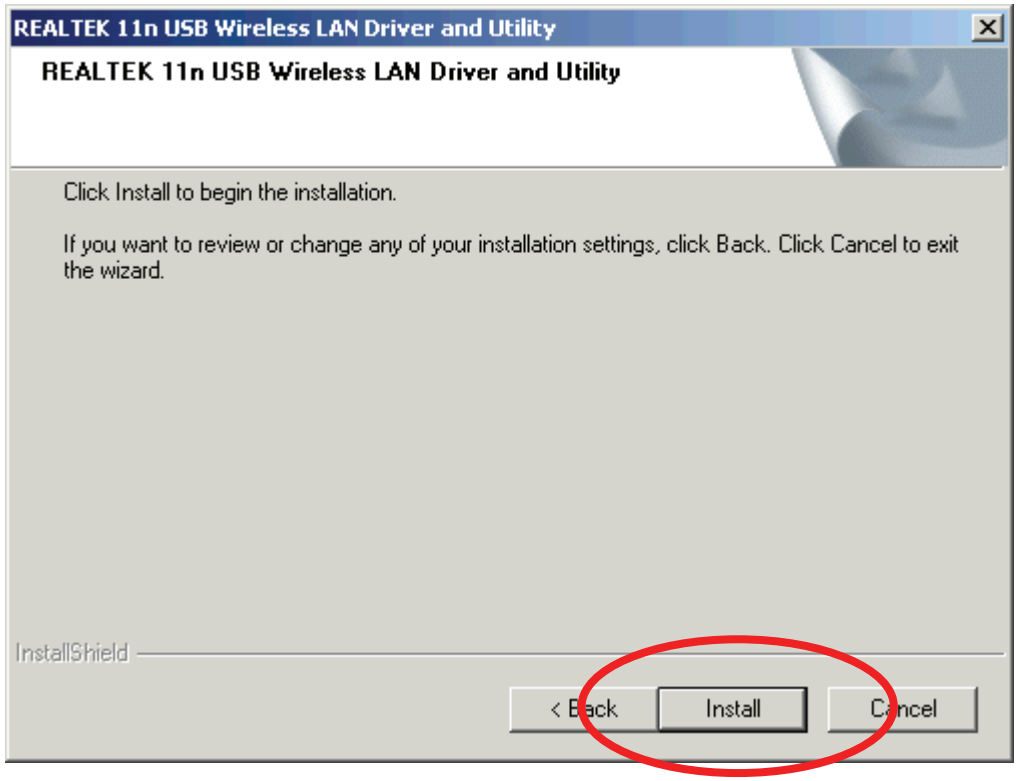
< Back
Next >
Cancel

Step 5:
Click **" Install "**.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REALTEK 11n USB Wireless LAN Driver and Utility
Click Install to begin the installation.
If you want to review or change any of your installation settings, click Back. Click Cancel to exit the wizard.
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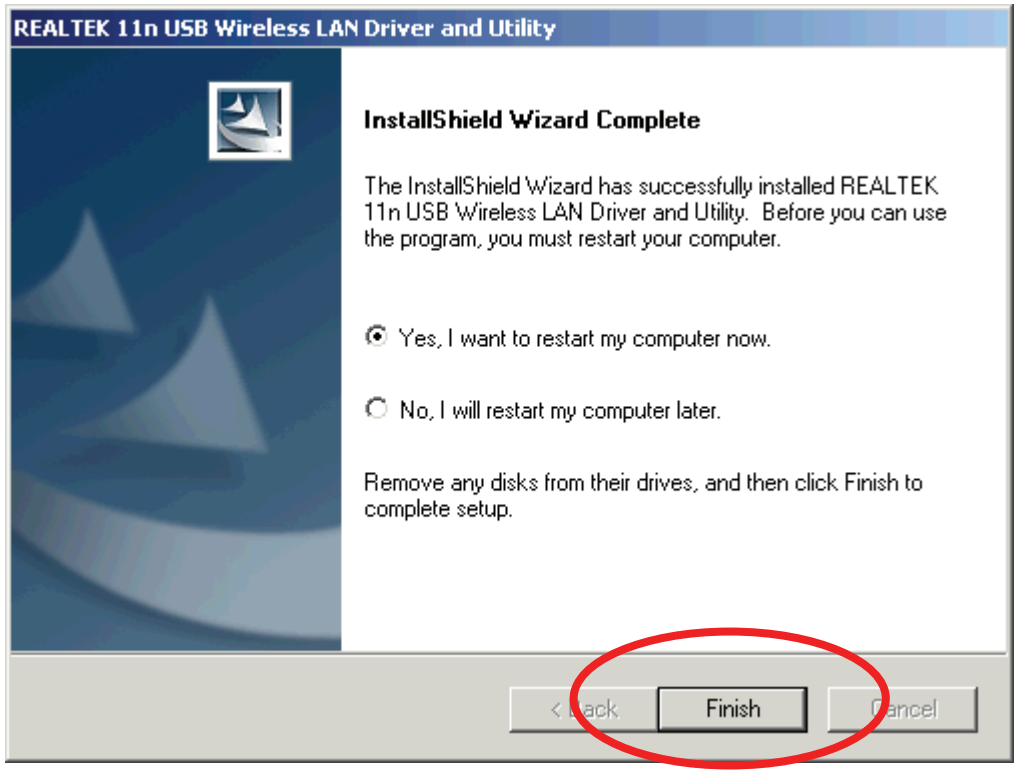
< Back
Install
Cancel

Step 6:
Click **" Finish "**.


REALTEK 11n USB Wireless LAN Driver and Utility
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed REALTEK 11n USB Wireless LAN Driver and Utility. Before you can use the program, you must restart your computer.
Yes, I want to restart my computer now.
No, I will restart my computer later.
Remove any disks from their drives, and then click Finish to complete setup.
< Back
Finish
Cancel

Making a Basic Wireless Network Connection

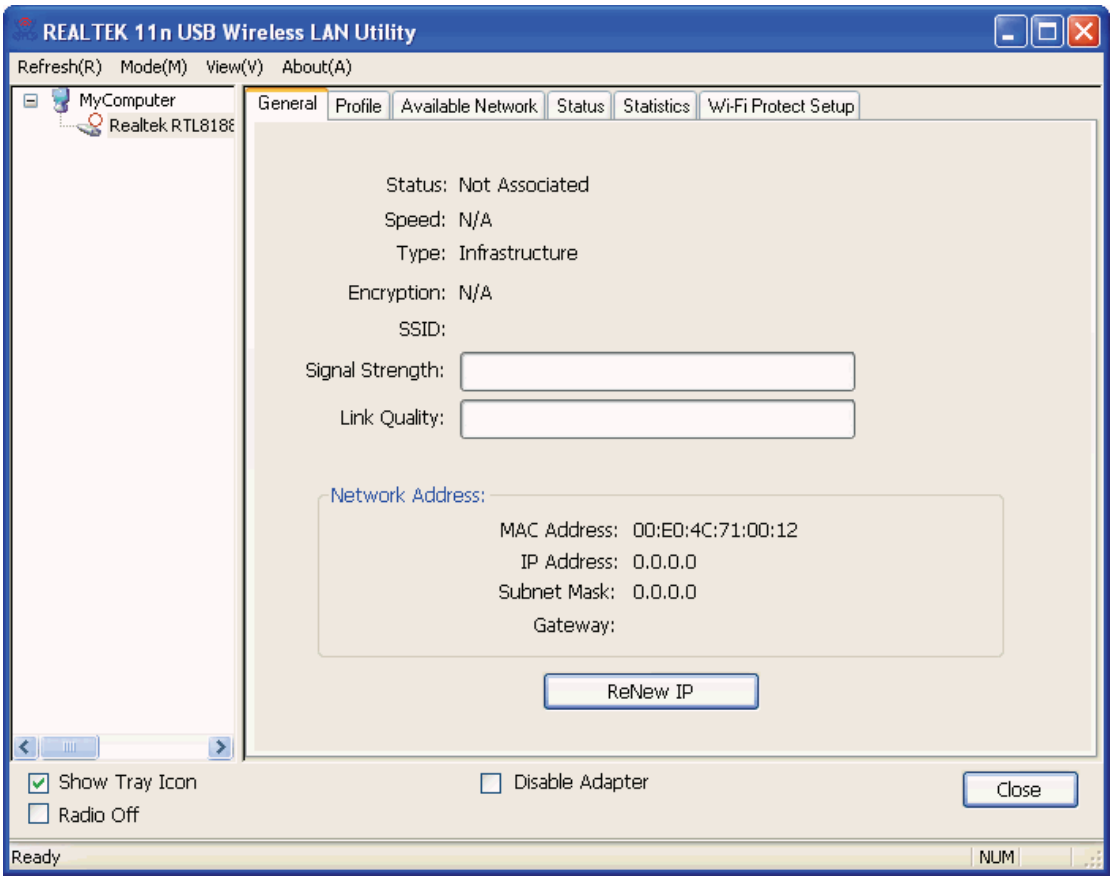
For Windows XP/Vista/7 users, your native Windows XP/Vista/7 wireless support (Wireless Zero Configuration Service) has been disabled by default.

Infrastructure mode

An Infrastructure Mode network contains at least one wireless client and one wireless AP or router. This client connects to Internet or intranet by communicating with this wireless AP or router.

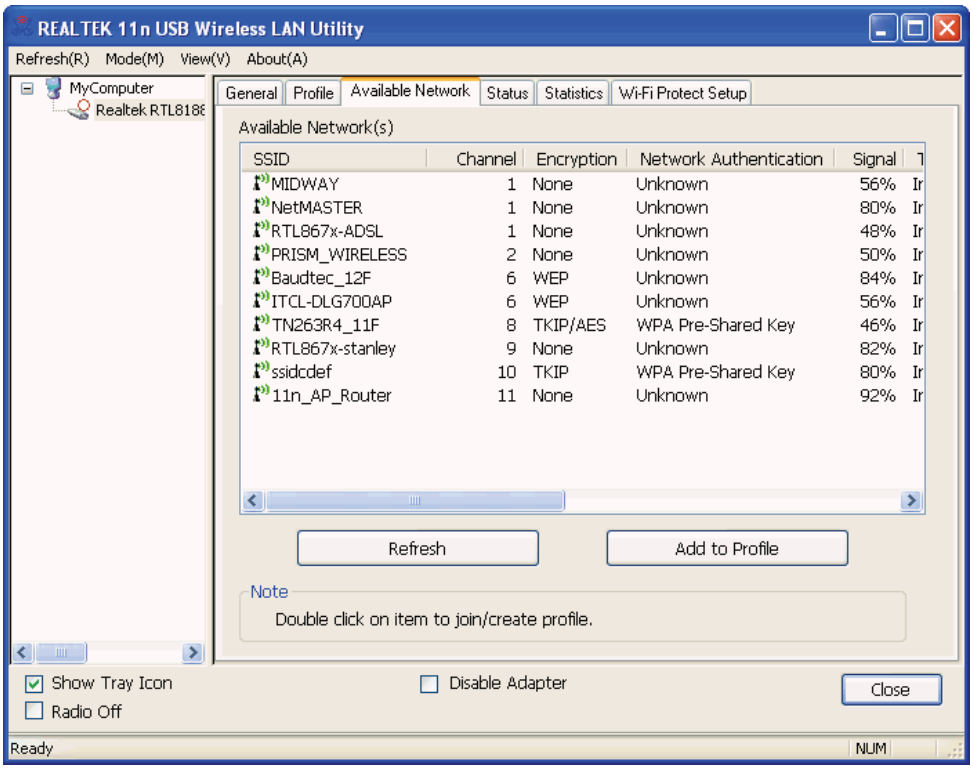
Step 1:

Double click the icon on your desktop to start the utility or in the task bar.



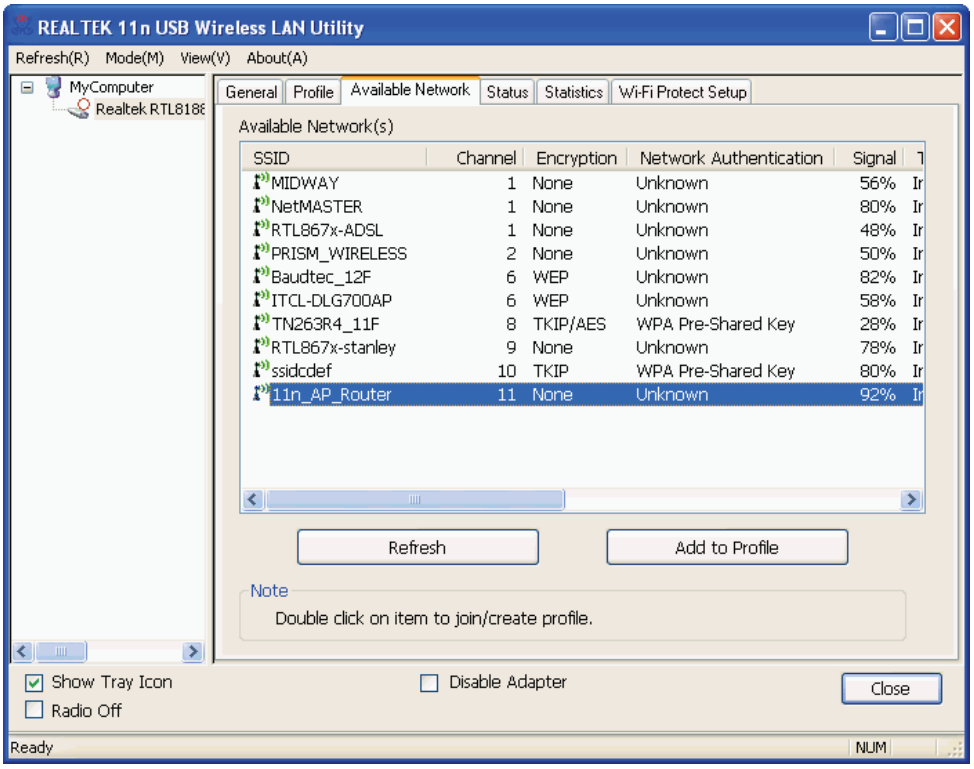
Step 2:

Click the **" Available Network "** button to scan available access points.



Step 3:

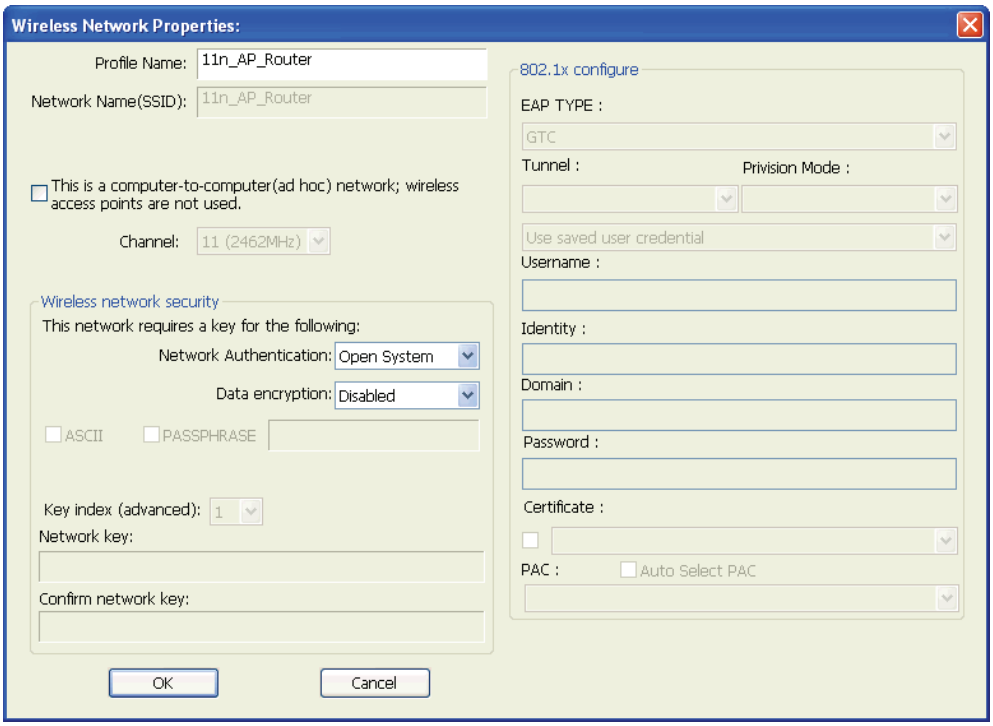
Double click on the SSID of AP that you are going to connect to and create profile that you are connecting to an open (Encryption is None) wireless network for example the SSID is 11n_AP_Router.



Step 4:
Click the **" OK "**.

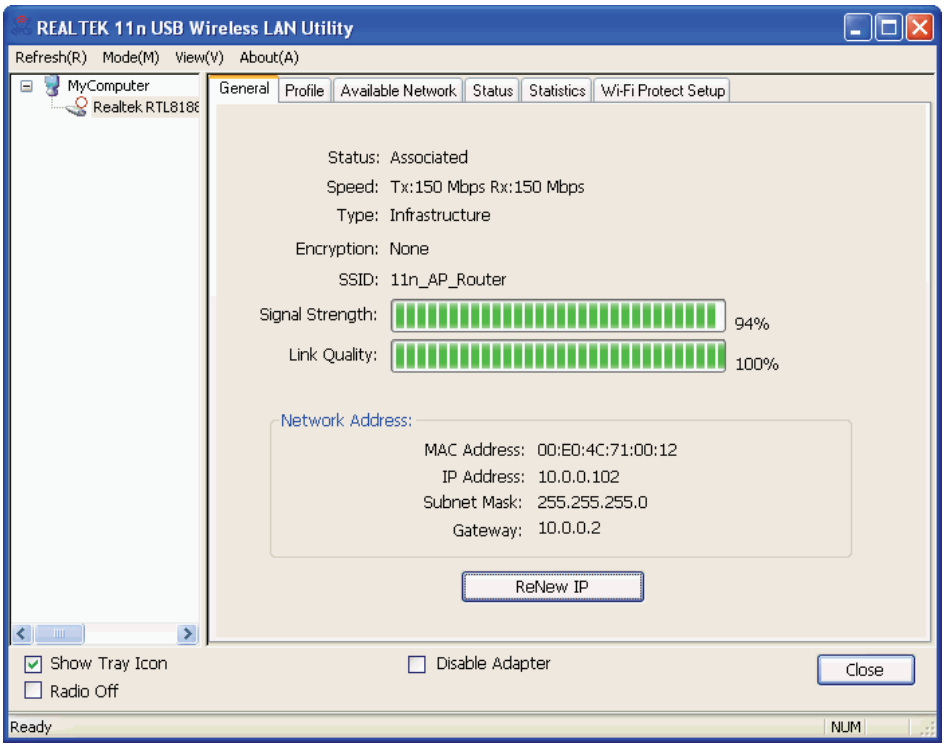
Unsecured network
You are connecting to the unsecured network " 11n_AP_Router ".
Information sent over this network is not encrypted and might be visible to other people.
OK
Cancel

Step 5:
Click the **" OK "**.

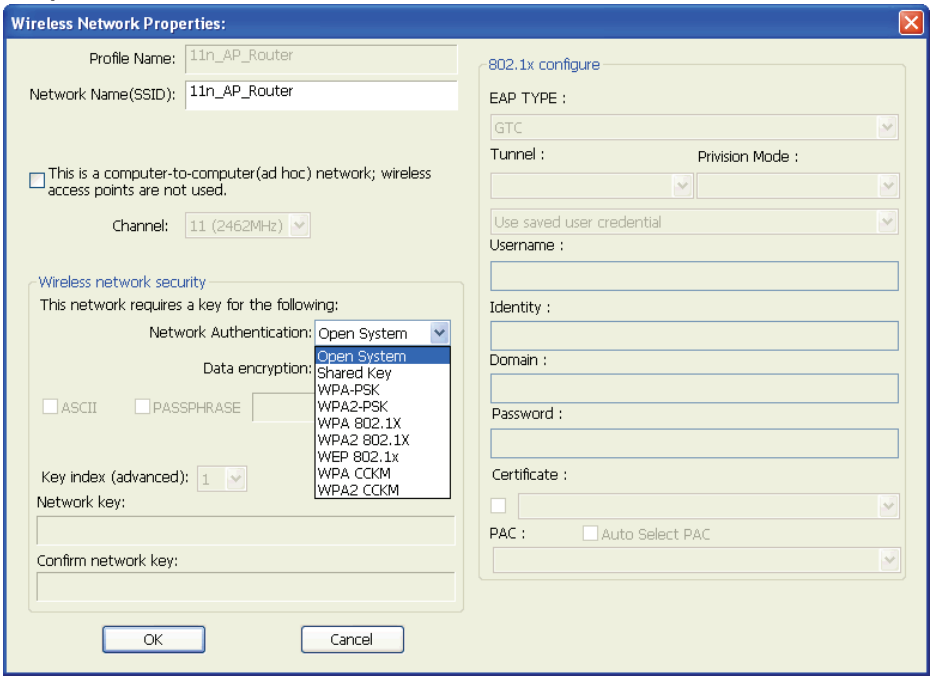


Step 6:

Now you are ready to use the Wireless Network to Internet or intranet.



Note: This example is an open wireless network. If you are going to connect to a Wireless adapter with security protection, you will have to configure the encryption settings in this profile to be corresponding to the other wireless adapter. Please click on the **" Network Authentication "** drop-down list to select an authentication method, and then select a **" Data encryption "** type. Fill in each required blanks and click **" OK "**.



Introduction to the Wireless LAN Utility

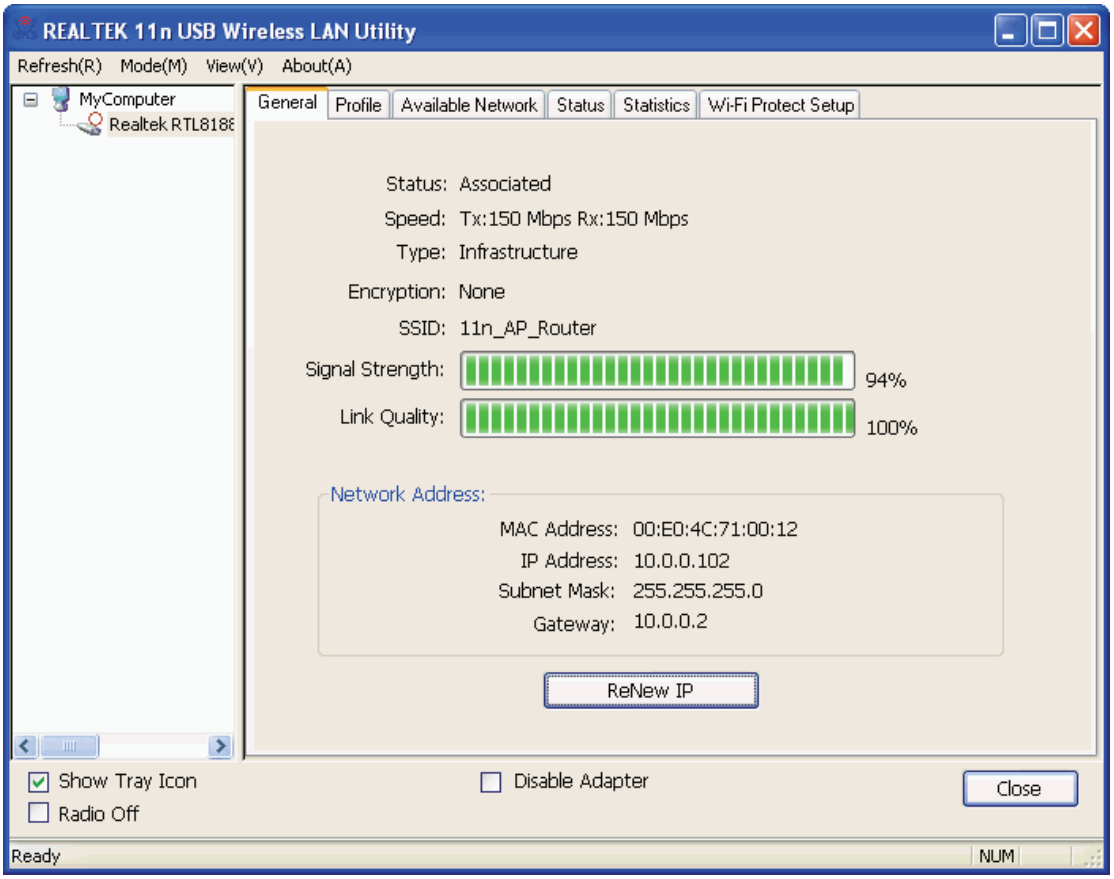
Note: This management instruction uses Windows XP/Vista/7 as the presumed operation system.

Starting the Wireless LAN Utility

Checkboxes	Functions
Show Tray Icon	To disable or enable to show the utility icon on your system tray, which is in the notification area at the lower-right corner of the windows desktop.
Radio Off	To disable or enable to prevent this adapter form transmitting or receiving signals.
Disable Adapter	To disable or enable the wireless adapter.
Windows Zero Config	To disable or enable to use the native Windows XP/Vista/7 wireless support (Wireless Zero Configuration Service).

General

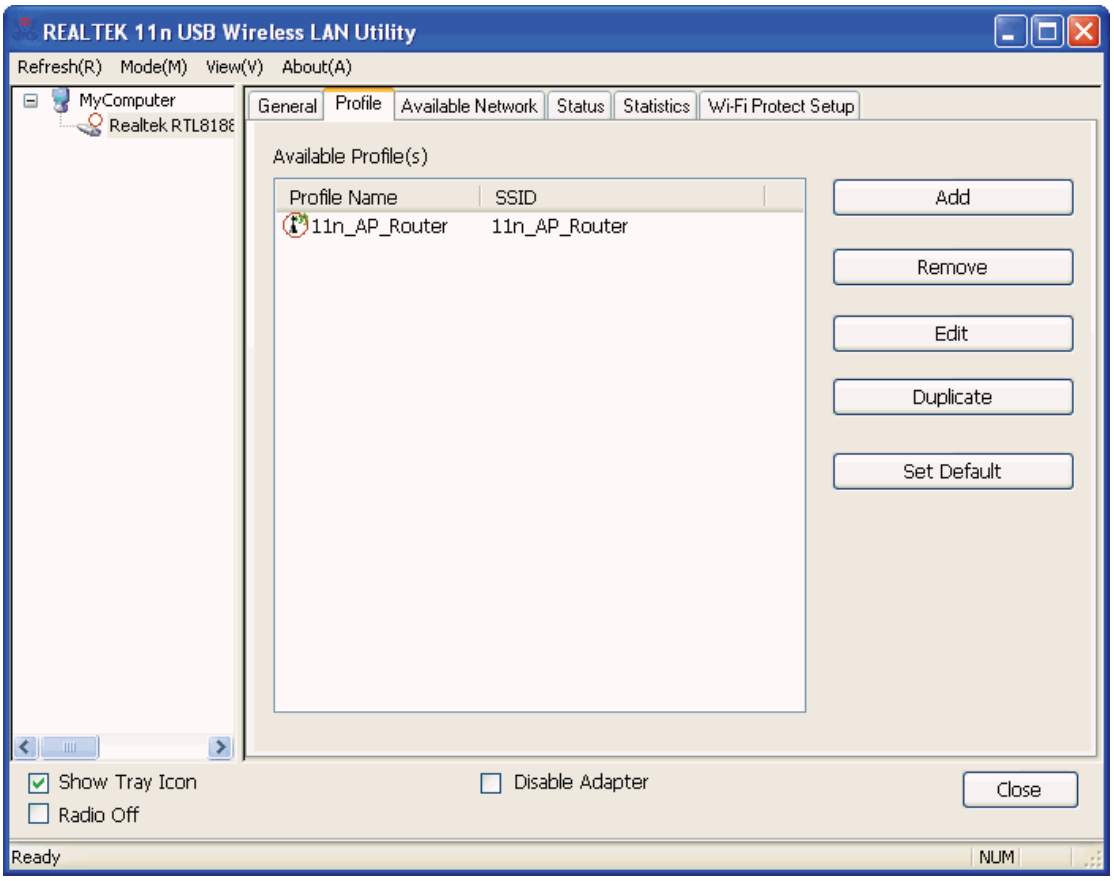
After starting the utility, the general page pops up This **General** tab provides the information of your current wireless network connection. You may click the **Renew IP** button to refresh those listed information.



	Functions
Status	Check if the device associated to target network.
Speed	The current connection speed
Type	Infrastructure or Ad-Hoc mode.
Encryption	The encryption mode for connecting to current network profile.
SSID	The SSID (network name) of the connected wireless network.
Signal Strength	Indicates the signal strength.
Link Quality	Indicates the link quality.
Network Address	Shows the current IP addresses settings.

Profile

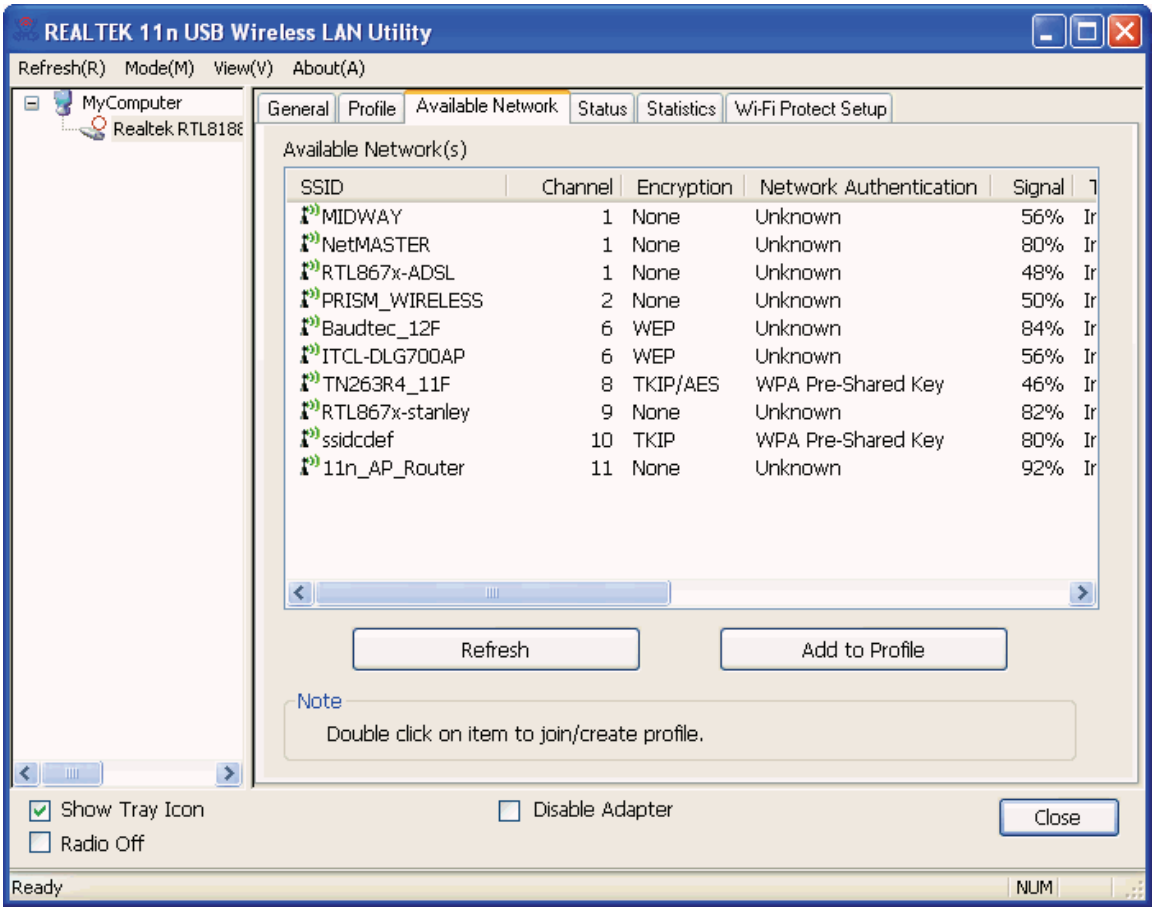
The **Profile** tab lists the preferred connections. You can click the buttons beside to do configure each connection.



	Functions
Add	To add a connection profile.
Remove	To remove a connection profile.
Edit	To modify the configurations for a profile.
Duplicate	To make a copy of a profile.
Set Default	To select a profile as your default wireless connection.

Available Network

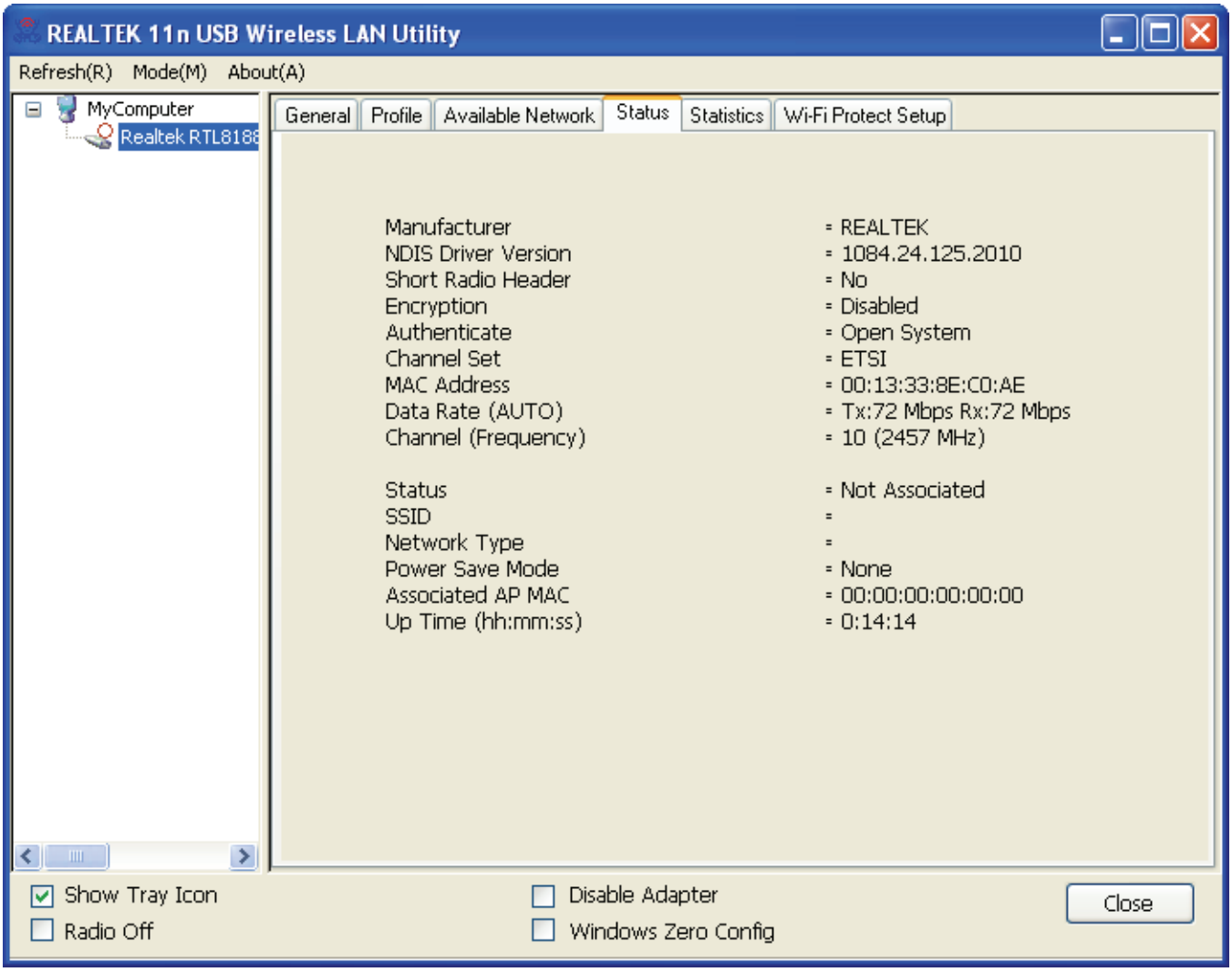
This **Available Network** tab lists the reachable wireless network.



	Functions
Refresh	To rescan available Wireless Networks.
Add to Profile	To add an available Wireless Network to your profile list.

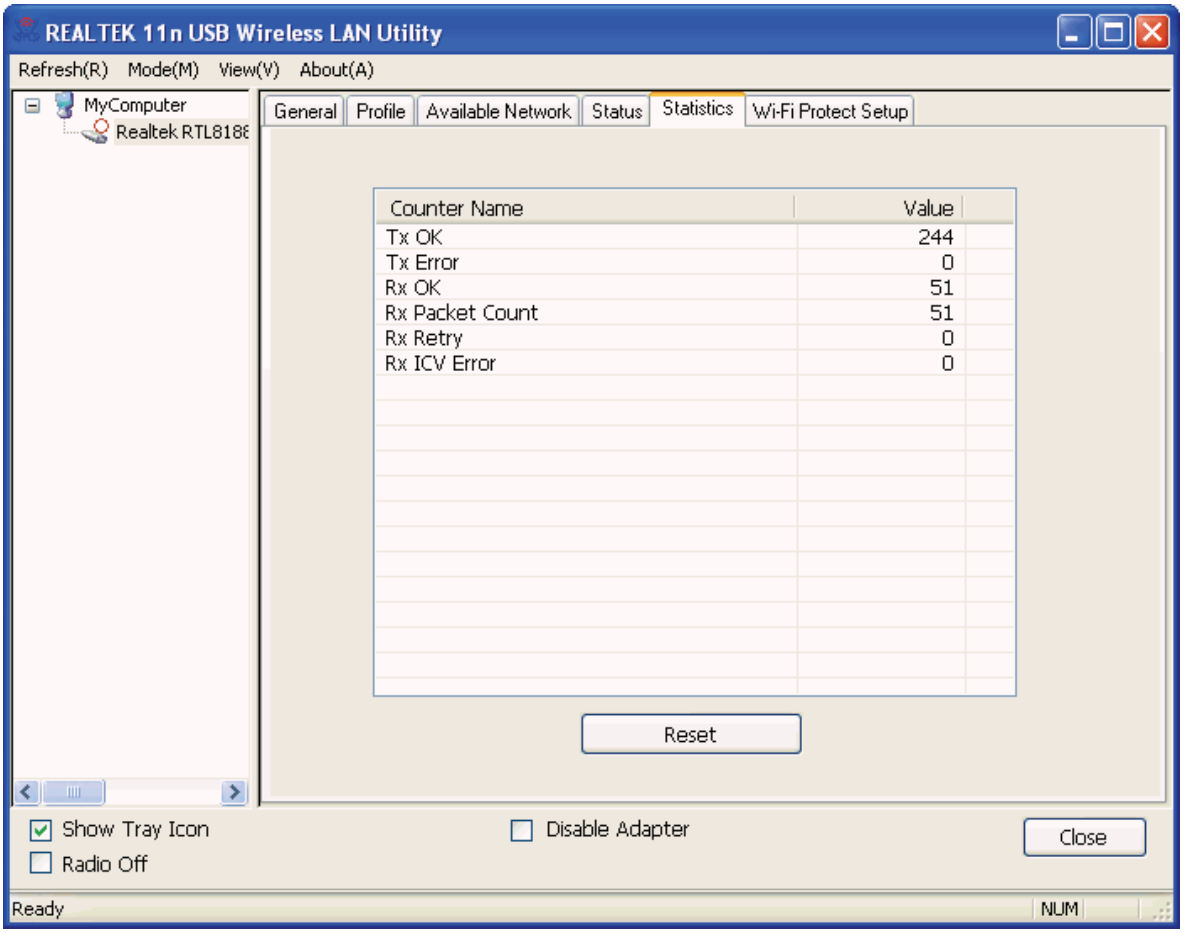
Status

The **Status** tab shows the current connection status.



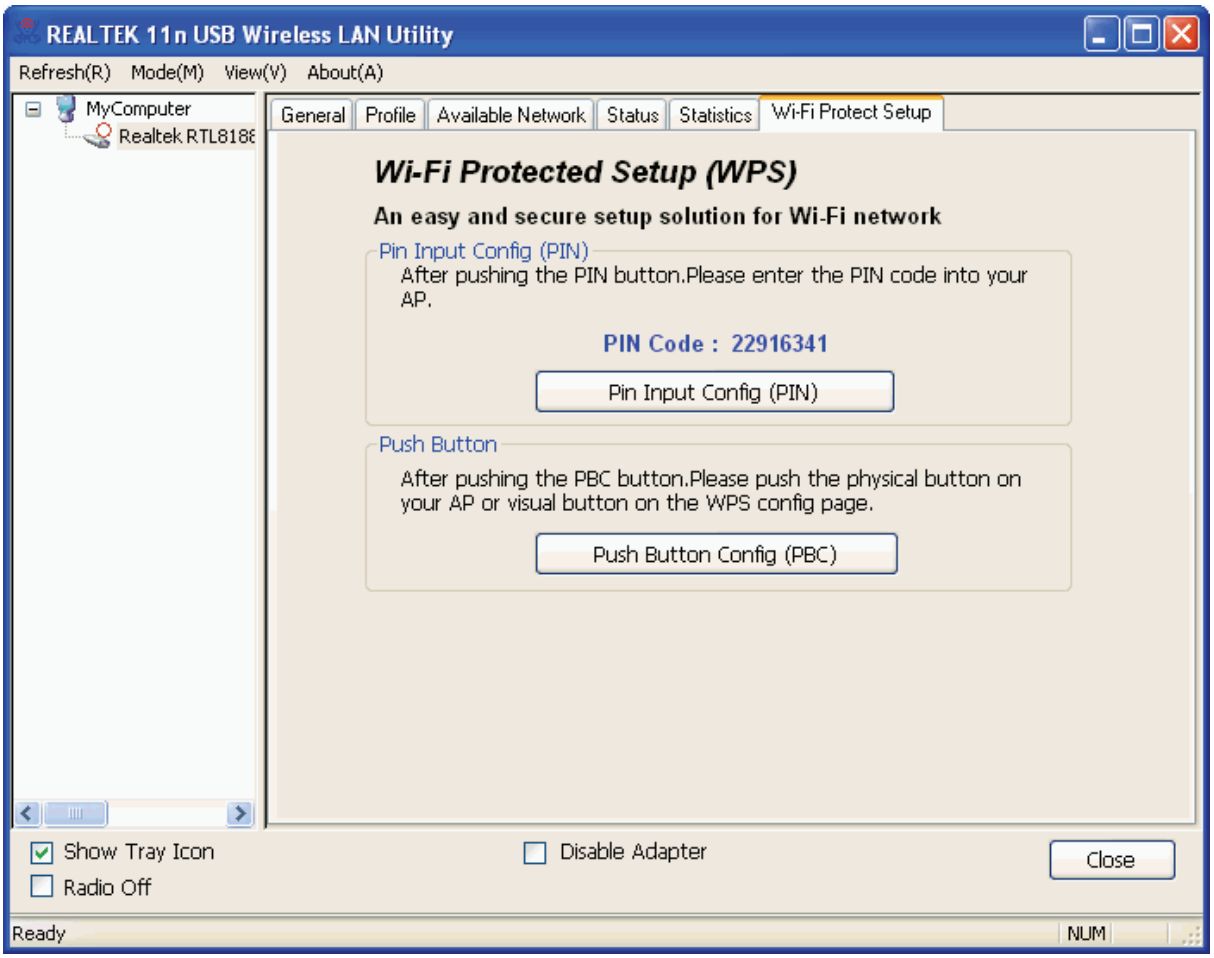
Statistics

The **Statistics** tab shows the transmission activity record. Clicking the **" Reset "** button recounts the values from zero.



Wi-Fi Protected Setup (WPS)

An easy and secure setup solution for Wi-Fi network.

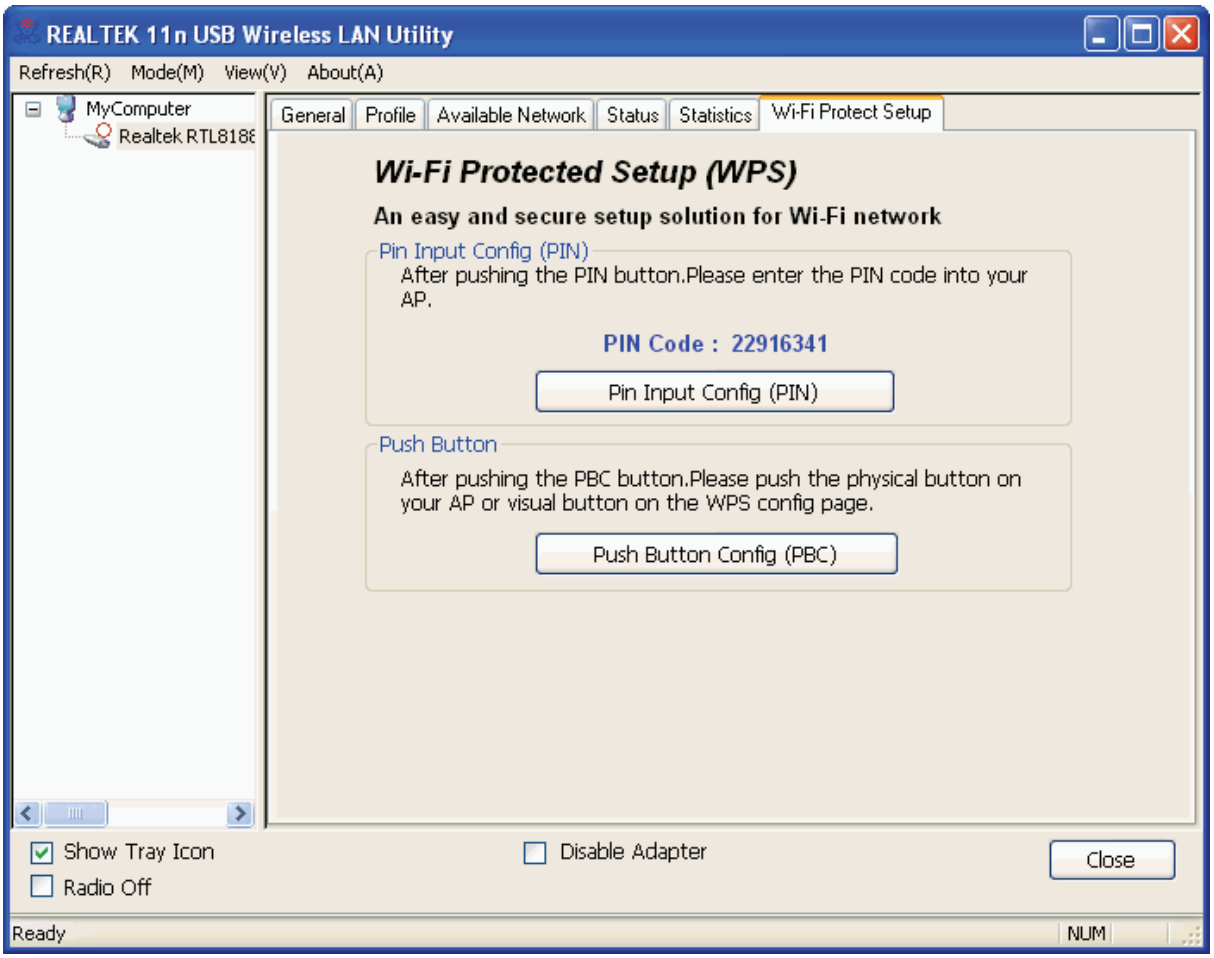


Push Button Config (PBC) Method

If both AP and users' Wireless LAN Utility has the physical button or visual button of Push Button Config (PBC), please follow steps below to complete the WPS.

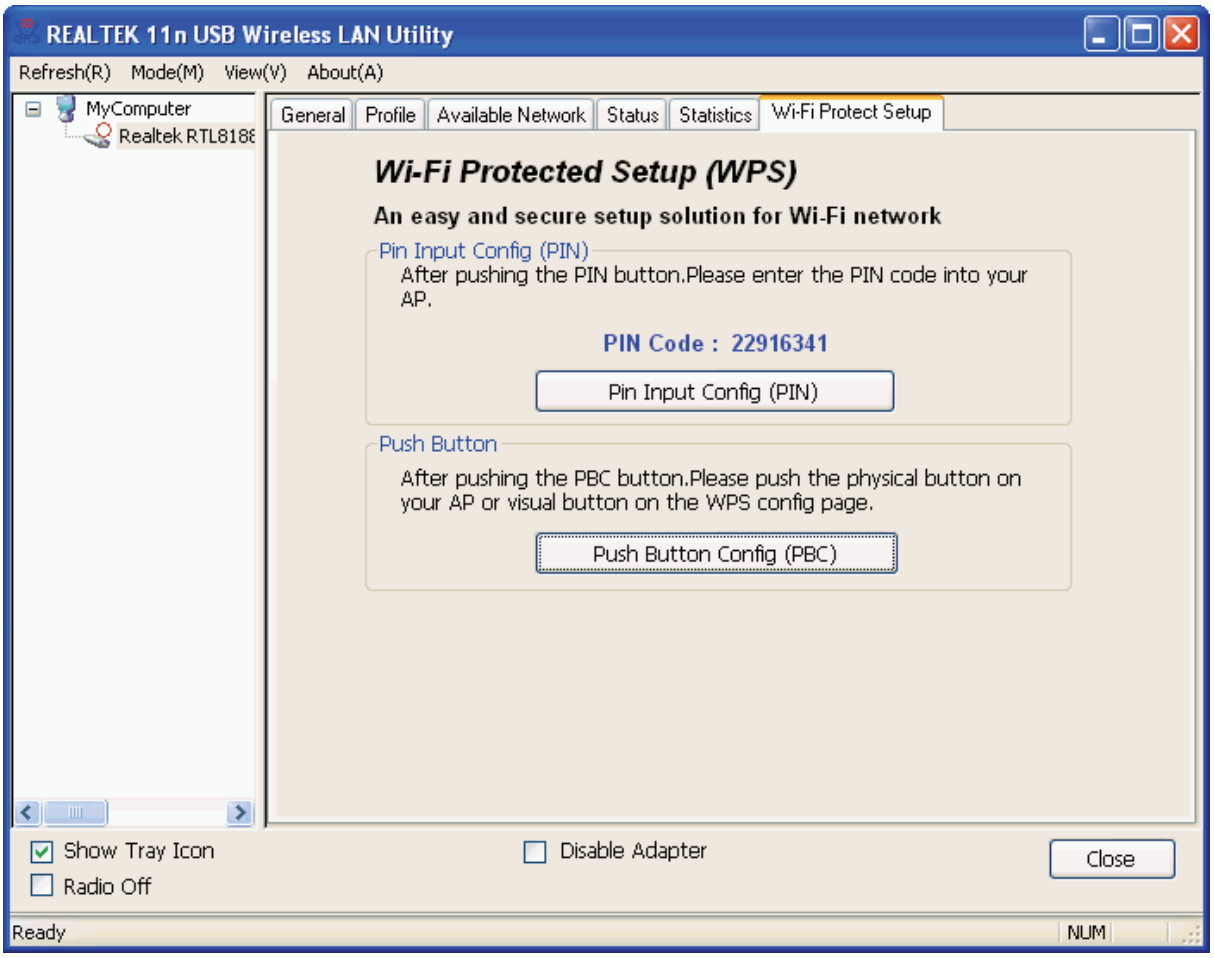
Step 1:

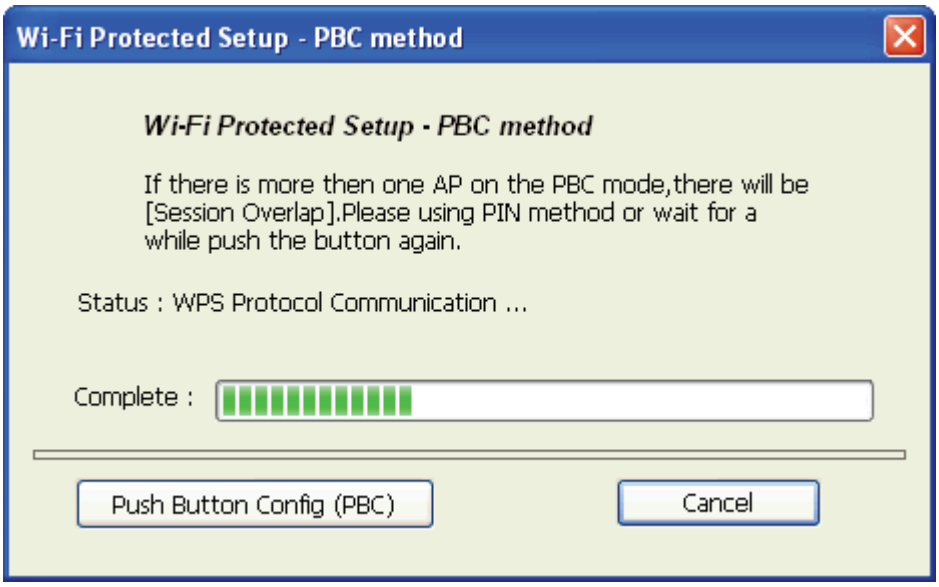
Double click the icon on your desktop to start the utility or in the task bar and then click the **" Wi-Fi Protected Setup "** tab.



Step 2:

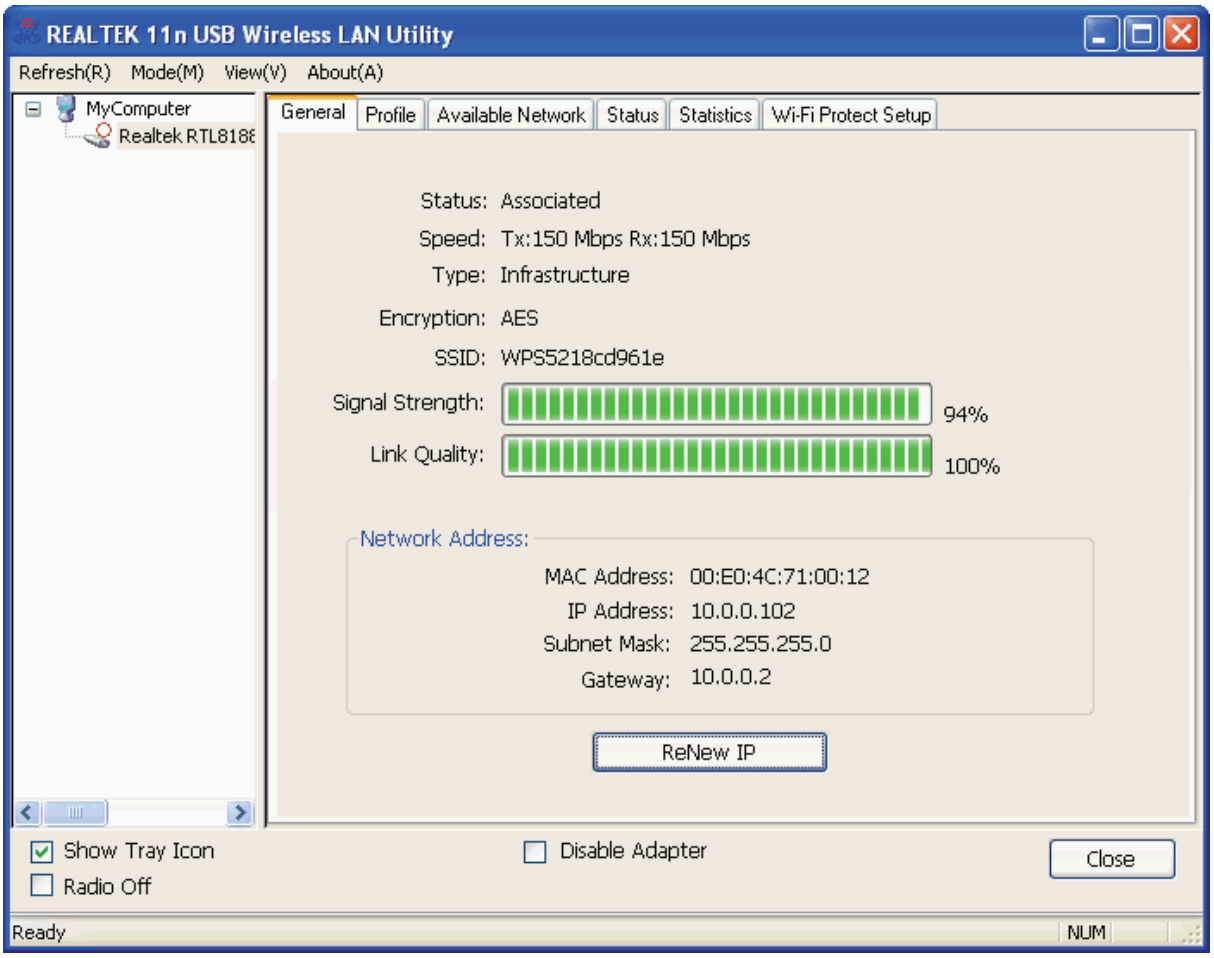
Click on **" Push Button Config (PBC) "** button.




Wi-Fi Protected Setup - PBC method
Wi-Fi Protected Setup - PBC method
If there is more then one AP on the PBC mode,there will be [Session Overlap].Please using PIN method or wait for a while push the button again.
Status : WPS Protocol Communication ...
Complete :
Push Button Config (PBC)
Cancel

Step 3:

Now you are ready to use the Wireless Network to Internet or intranet.

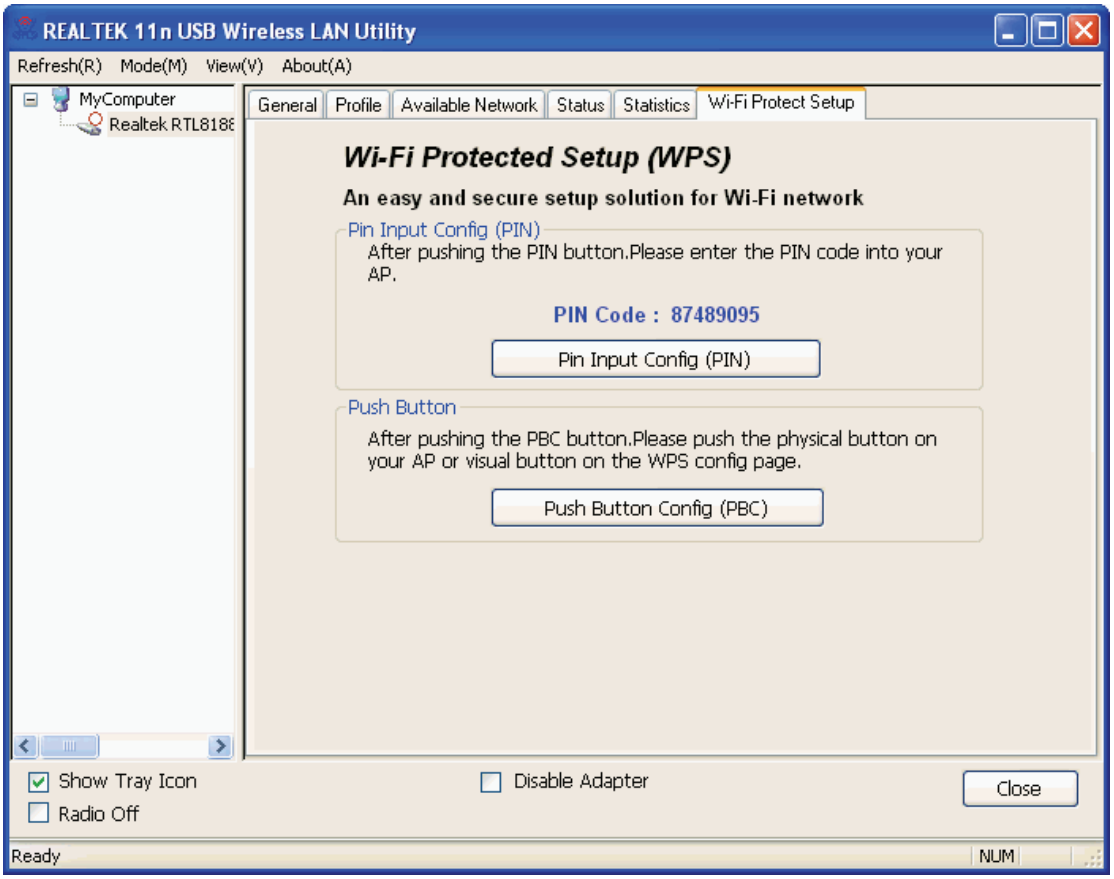


PIN Method 2

If AP know users' PIN code and the PIN code is 87489095, please follow steps below to complete the WPS.

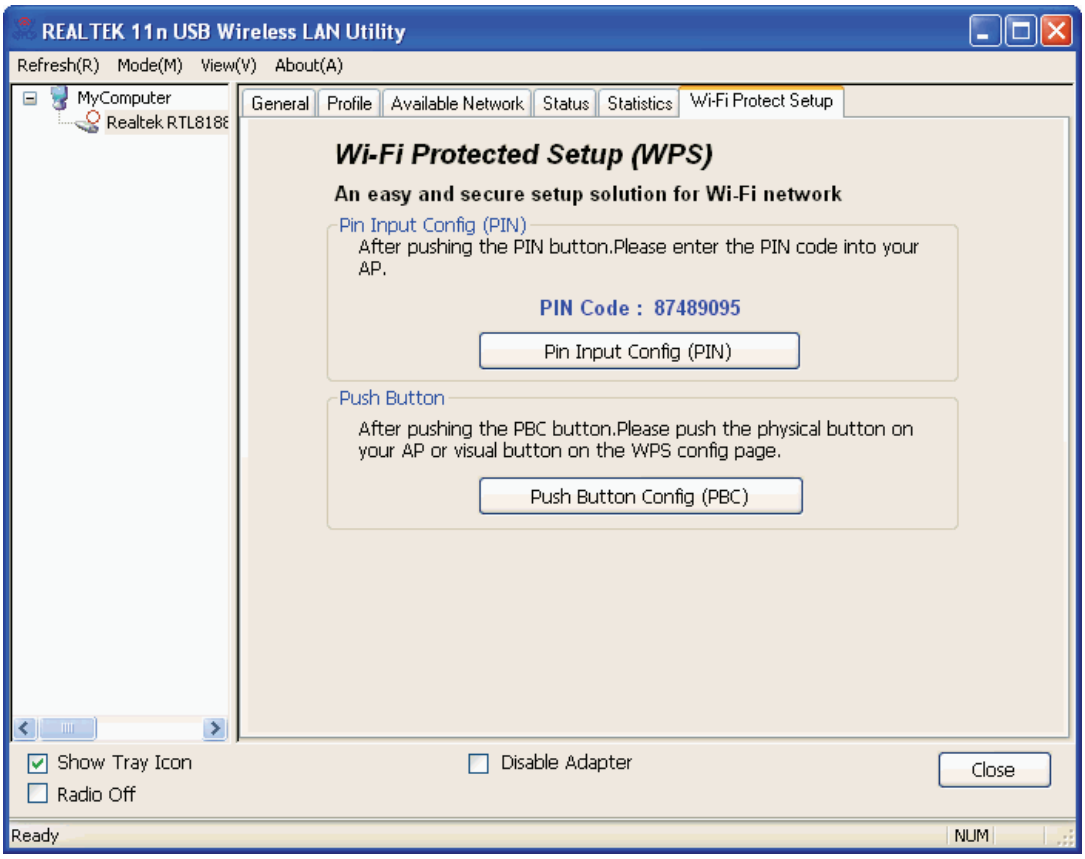
Step 1:

Double click the icon on your desktop to start the utility or in the task bar and then click the **" Wi-Fi Protected Setup "** tab.



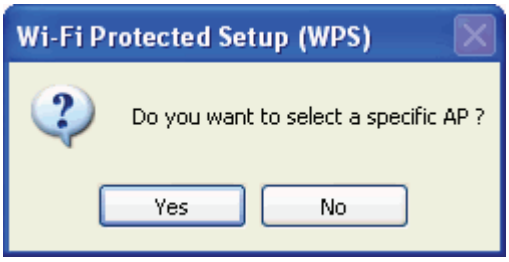
Step 2:

Click on **" Pin Input Config (PIN) "** button.



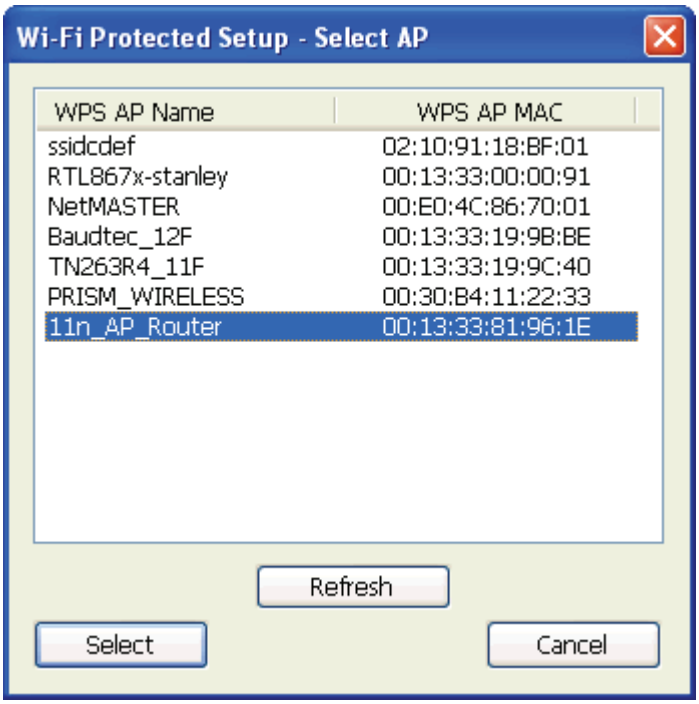
Step 3:

Click on **" Yes "** button.



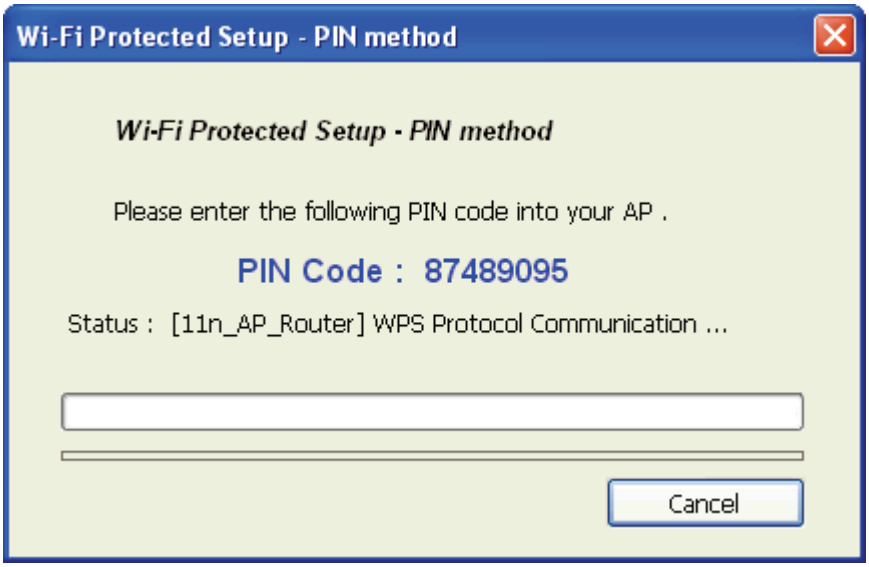
Step 4:

Select the desired WPS AP Name and then click on **" Select "** button.



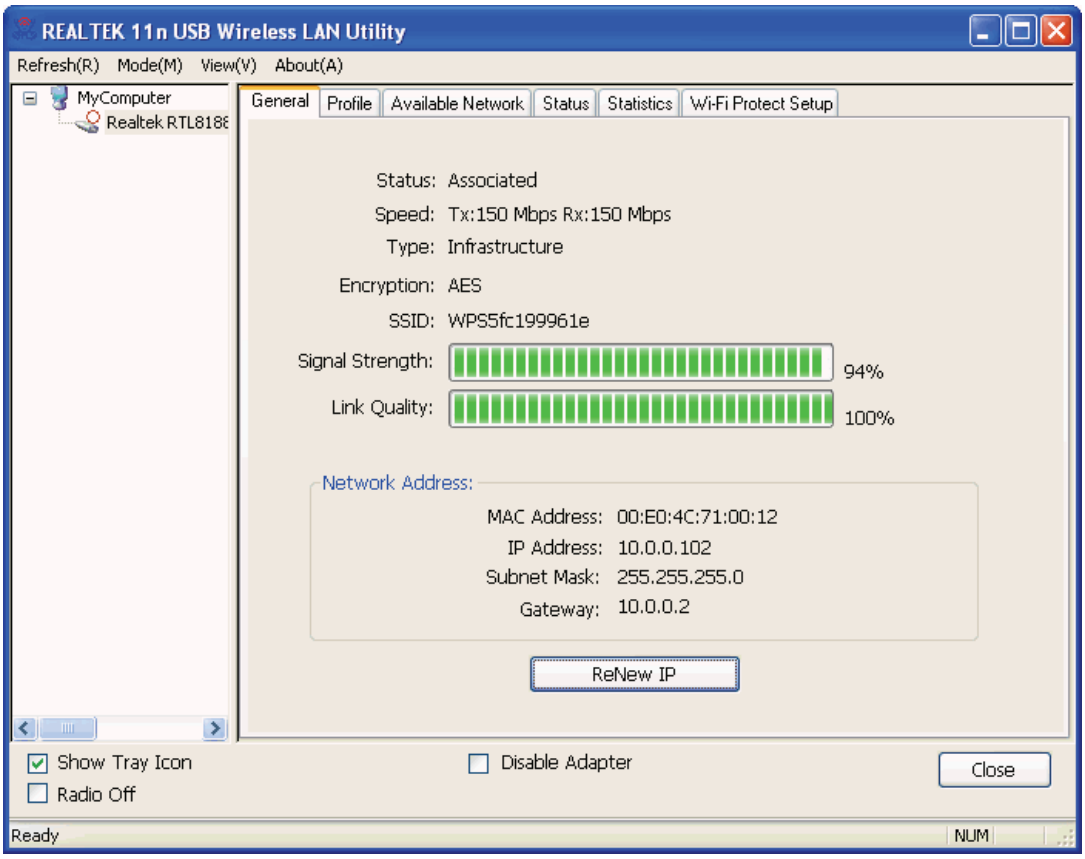
Step 5:

Please enter the PIN Code into your AP.


Wi-Fi Protected Setup - PIN method
Wi-Fi Protected Setup - PIN method
Please enter the following PIN code into your AP .
PIN Code : 87489095
Status : [11n_AP_Router] WPS Protocol Communication ...
Cancel

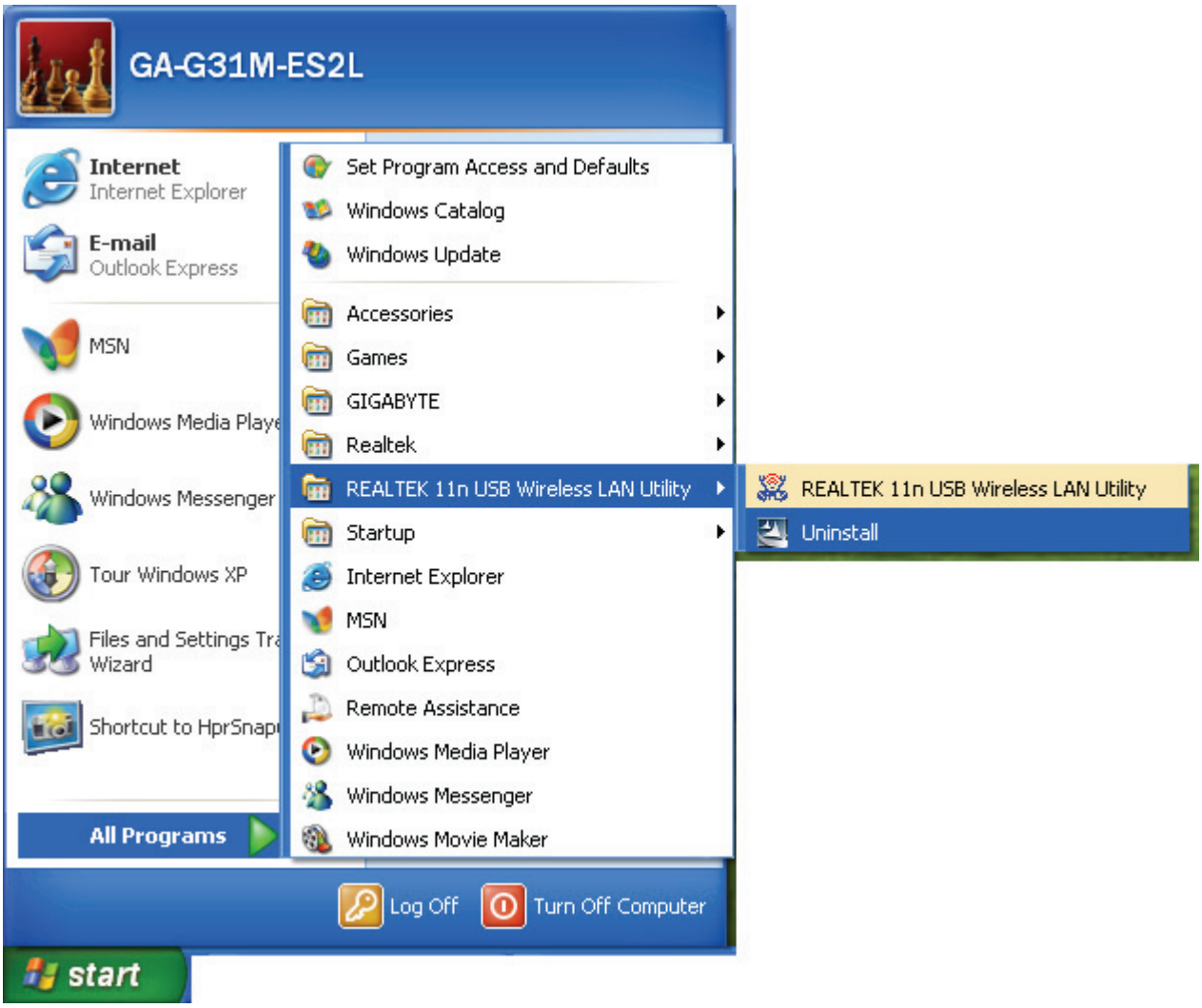
Step 6:

Now you are ready to use the Wireless Network to Internet or intranet.

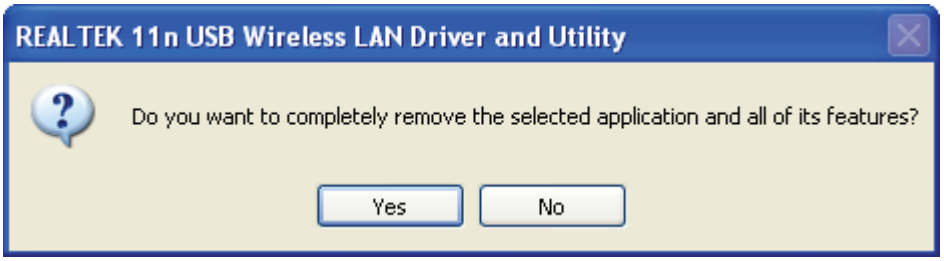


Uninstall

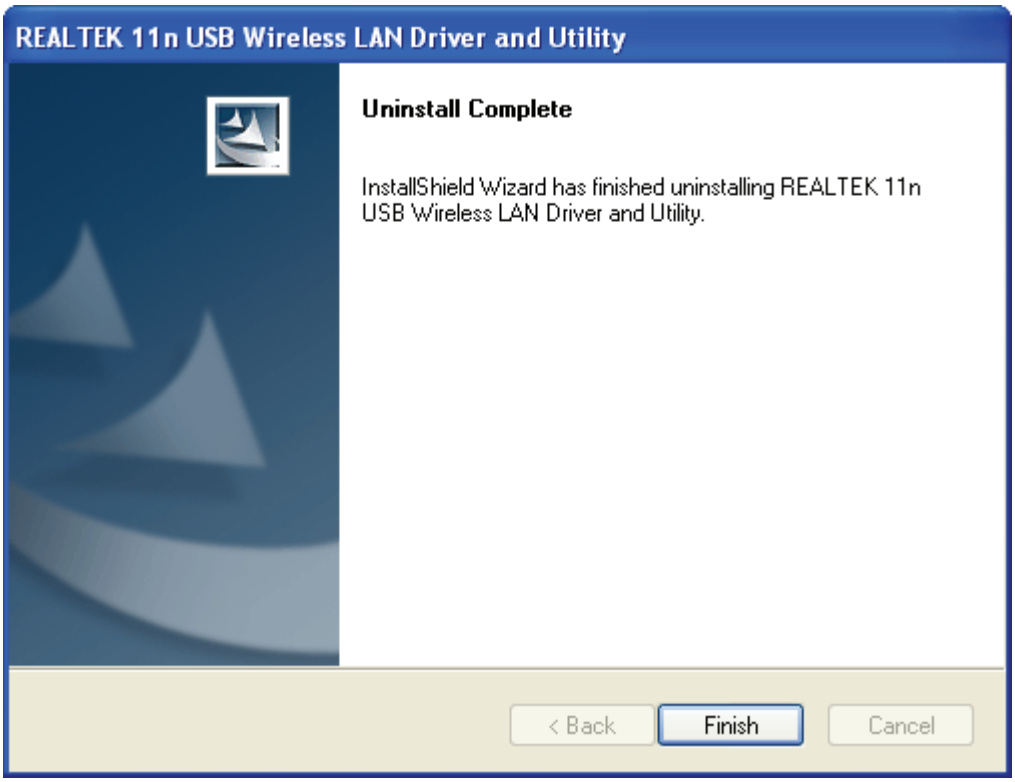
Step 1:
Click **" Start -> All Programs -> REALTEK 11n USB Wireless LAN Utility -> Uninstall "**.



Step 2:
Click **" Yes "**.


REALTEK 11n USB Wireless LAN Driver and Utility
Do you want to completely remove the selected application and all of its features?
Yes
No

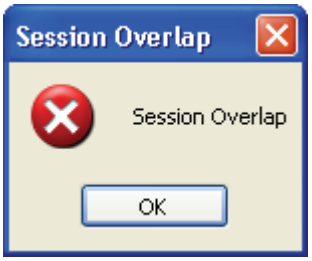
Step 3:
Click **" Finish "**.


REALTEK 11n USB Wireless LAN Driver and Utility
Uninstall Complete
InstallShield Wizard has finished uninstalling REALTEK 11n USB Wireless LAN Driver and Utility.
< Back
Finish
Cancel

Troubleshooting

Session Overlap

If there is more then one AP on the PBC mode, there will be [Session Overlap].Please using PIN method or wait for a while push the button again.



TimeOut!!

If you see the message below while doing WPS!! Please retry again!

NO REALTEK 11n USB Wireless LAN

If you see the message below, please plug in the **REALTEK 11n USB Wireless LAN** to the USB port of PC.

REALTEK 11n USB Wireless LAN is Disconnected

If you see the message below, please refer to the chapter **Making a Basic Wireless Network Connection** to make a Wireless Network Connection.

Cannot get IP Address from Wireless AP

If the Wireless LAN Utility cannot get any the real IP Address from AP, please click on **ReNew IP** button to request IP Address again or configure the static IP Address for **REALTEK 11n USB Wireless LAN**.